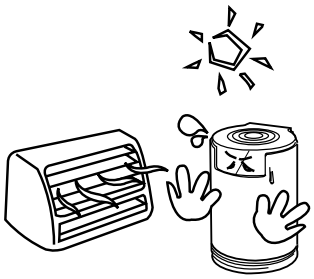
User Manual

TViX HD M-5100U

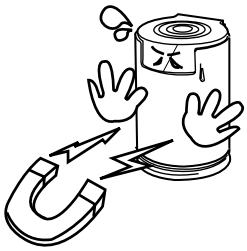
**** Some functions will require firmware updates first.**

Safety Notice

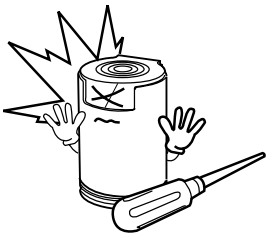


Keep your TViX away from heated areas, such as sunlit areas, heaters etc. Set it up in well ventilated places. Ensure that a free airflow is maintained around the appliance.

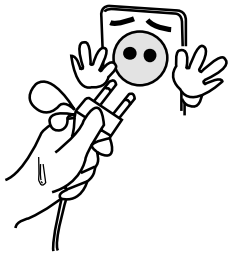
Do not set the TViX up in places that are exposed to oil, water, dust, humidity or rain and wind.



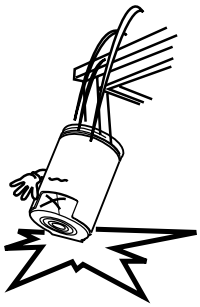
Keep all magnetic materials away from the TViX. Magnetic materials such as speakers or magnets may erase or cause damage to the data stored in the hard disk.



Do not try to disassemble or remodel the device. Doing so may cause malfunction or fire.



Do not touch the power plug with wet hands or use defective power cables & electric outlets. It may cause electric shocks or fire.



Do not drop the device. Doing so may cause critical damage to the hard drive.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Usage Precautions

Please read the following usage precautions before using your TViX HD.

- Make sure the power is off when you connect the A/V cable between the TViX and the TV.

- When cleaning the TViX product, pull out the power cord and then wipe it with a soft piece of dry cloth.

- When connected to the computer through the USB cable the TViX HD acts as an external USB storage device (In this state, there is no video/audio output and the VFD will show as USB ON). For normal TViX play mode, disconnect the USB cable connected to the computer and turn on the TViX HD.

- When the TViX HD is playing and the USB is connected to the computer, a USB ON icon will be displayed on the center of the screen. Disconnecting the USB port will show the original screen.

- Make sure the jumper setting of the hard disk which is installed on the TViX HD is set as Single Master. Otherwise the hard disk will not be recognized by TViX HD.

- When detaching the HDD, please let the heat out sufficiently.

- The supplied cables and accessories are recommended for customized best performance of the TViX HD. Using other cables or accessories may not provide best performance.

- If you want to unplug the device, press the Stop button in 'Unplug or Eject Hardware'.

- Windows 98SE and Windows ME does not support NTFS file format. However, NTFS file format is available on Windows 2000/XP. “Primary Partition” is recommended when creating two or more partitions with a single hard disk drive.

- If you choose FAT32 file format on Windows 2000/XP, the drives maximum size will be limited to 32GBs. If you want to use a single drive letter of 32GBs or more, you have to format on Windows 98SE/ME.

- The certification sticker mark is on the bottom of the device.

** Some functions will require you to update the firmware first.

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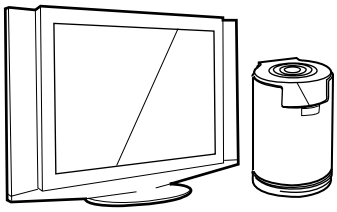
1 Introduction

1.1 Multimedia Player



TViX HD is a standalone, multimedia hard disk player which plays digital videos, digital music, digital still images and DVD files to a TV display and home entertainment system. You can enjoy digital contents in your living room without having to burn discs or having to play it back on a DVD or CD player anymore.

TViX HD plays back DVD movies with the full functionality of DVD navigation. You can create your own virtual DVD library by storing your personal collection of DVDs in .ISO or .IFO format and watch them exactly as if they were running from the original DVDs (all original features included: Menu, Chapter, Audio Stream, Subtitle, Fast Forward, Rewind, Slow, Pause, Step Forward, Repeat, Search etc.).

TViX HD plays back high definition video (up to 1920x1080i) and still images. Pre-recorded HDTV programs from a digital TV set-top box or personal digital video contents taken by a HDV™ camcorder can be played back with the TViX HD on a high definition display. The TViX HD features a DVI connector and component, which will match the high resolution of HD level video contents.

Using the latest EM8621 processor, TViX HD supports the latest multimedia formats (WMV9 & WMV HD) as well as MPEG4 3.11,4.0 and 5.0.

Using the high definition DVI output, you can directly connect the TViX HD to your HDTV.

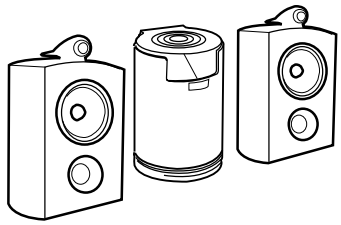
TViX HD supports DTS hardware decoder to mix DTS sound into 2 channels for a more dynamic sound quality.

The TViX HD can be networked with a PC system using its built-in LAN port. You are able to navigate to a PC file through TViX HD's network and play the file from its original destination without having to copy it into the TViX first.

With two USB2.0 host ports, you can now attach additional external USB hard drives to further extend the storage capacity or transfer files from another USB device such as a thumb drive. You can also playback files from a digital camera, USB flash driver, USB flash card reader, or a MP3 player.

You can play HDTV without a digital TV set-top box and use the play, pause and recording functions. (An optional HD Tuner box will be provided with the TViX HD in the future)

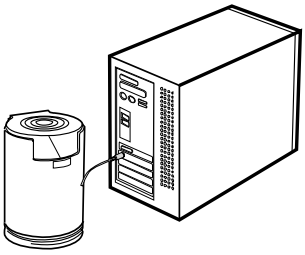
1.2 Audio Player



● TViX HD can play a variety of audio files such as MP3, Ogg Vorbis or WMA (Windows Media Audio) through the TV speaker and any other audio systems. You can listen to your favorite music files nonstop, by organizing a custom playlist. Now you can enjoy music all day without changing CDs.

● You can watch picture slideshows with the option of background music (supports music slideshows using picture images).

1.3 External Storage



● If you connect to a USB 1.1 port, the TViX HD will work at USB 1.1 speed, so we strongly recommend that you use USB 2.0.

● It can be used as an external device to save video, audio, image files, data, program backups, etc.

● USB 2.0 enables TViX HD to become an external storage device which supports up to 480Mbps.

● It supports Plug & Play, so Windows will automatically recognize TViX HD.

● If you connect the USB port when playing the TViX HD, the VFD will show as USB ON. When you disconnect the USB, you do not have to reboot the TViX HD for continuous use.

● If you are a Windows98SE user, you should download a USB storage driver from our website www.tvix.co.kr before you connect your TViX HD with your system. You do not need to install a driver in Windows ME/2000/XP.

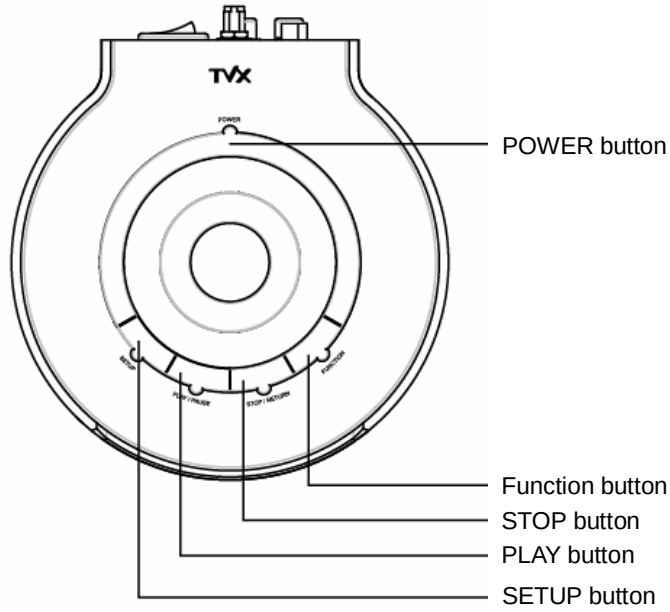
1.4 Specifications

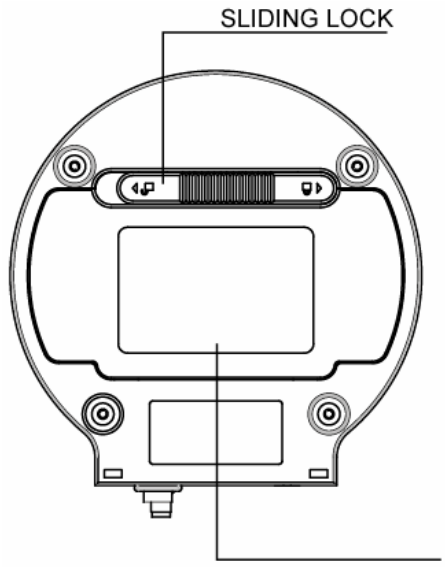
Main Chipset	Sigma Design EM8621
VFD Display	7 Alpha-Numeric Character
	5 Digit Numeric Display
Video	Format :.wmv, .avi, .mpg, .vob, .mp4, .asf, .tp, .trp , .IFO, .ISO
	Codec : MPEG 1 / 2 / 4, AVI, XVID
	Resolutions up to 1920 x 1080i
Audio	MP3, WMA, AAC, Ogg, PCM
	AC3, DTS Pass Through and Down Mixing
Photo	JPG
Connectivity	USB2.0 Host 2 Ports USB2.0 Target 1 Port
	LAN (10/100Mbps)
	Multi I/O Jack (Optional Breakout Box)
AV In / Out	Video
	DVI, Component, S-Video, Composite,
	Audio
	Digital : Coaxial, Optical / Analog: Stereo
File Formats	NTFS, FAT32
Subtitle	Text Subtitle : smi,sub,srt,aqt,utf,lrc / Image Subtitle : sub (with idx)
ODD Support	Through USB 2.0 Host
Language	English, French, German, Spanish, Italian, Portuguese, Swedish, Norwegian, Danish, Japanese, Korean
FAN	40mm Brushless FAN
FAN Control	Temperature Sensing, Variable Speed
Main Memory	Main Memory
Flash ROM	8 Mbyte
Internal Power	90~240V Free Voltage
Shape	Cylindrical
Dimension	131mm (Diameter) 185mm (Height)
Weight	1,200g (without HDD) 1,800g (with HDD)

2 Name of Each Part

2.1 Unit Control

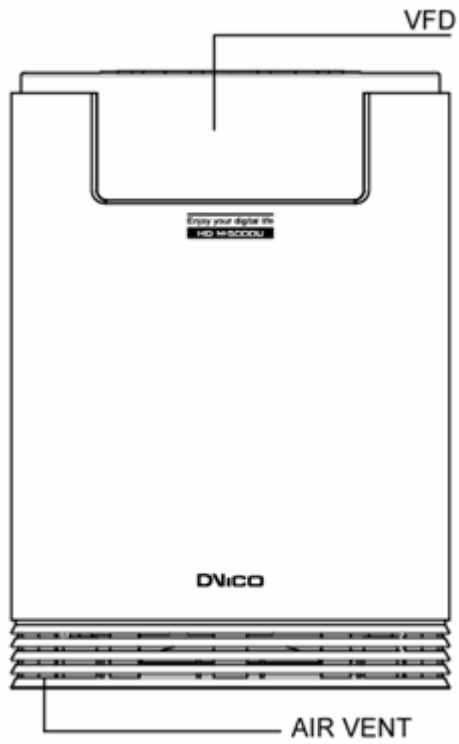
Basic functions can be done without the remote control.





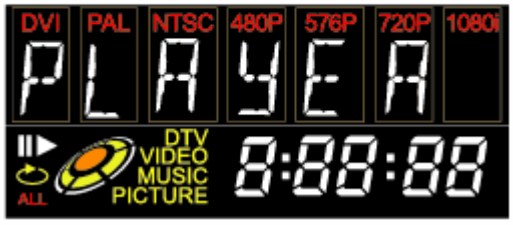
2.2 Front VFD

Information will be displayed on the VFD.



VFD

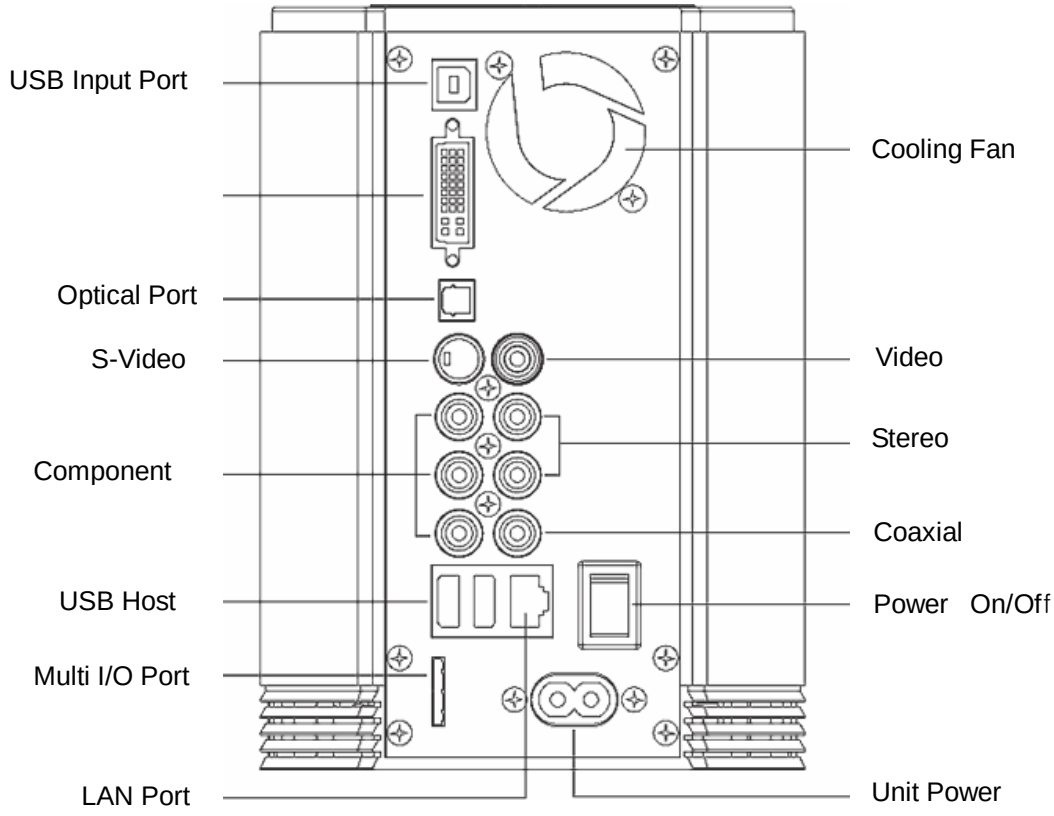
Video out mode



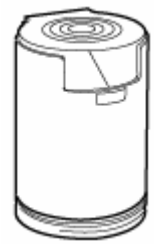
Play mode and information

2.3 Cable Connection

You can connect the TViX to a TV display or audio Amplifier using the A/V cable.

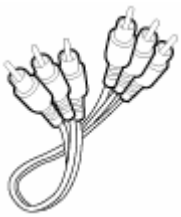


2.4 Package Contents

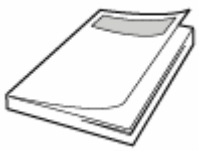


TViX HD M-5100U

Remote Control



A/V Cable



Manual

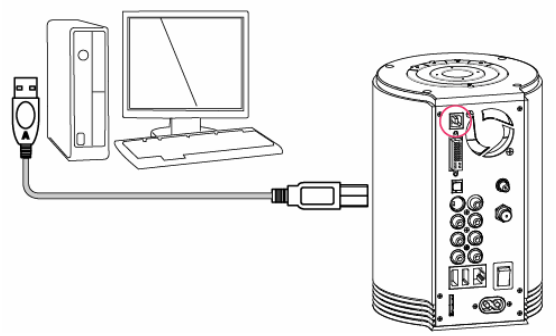
Power cable x 2

USB Cable

3 Installation and Connection

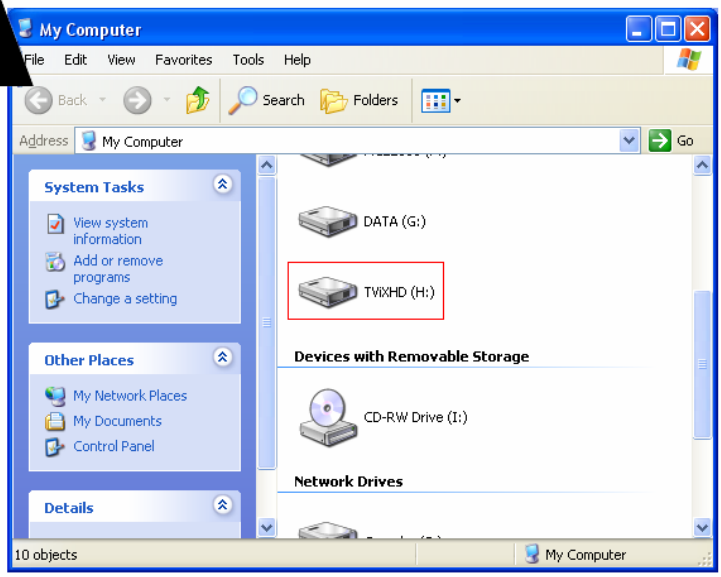
3.1 Making an HDD Folder

1. As shown in the picture below, one end of the USB cable should be connected to the USB connector of the TViX and the other end to the computer.



CAUTION!
The USB cable has a different shape on both ends. We use a USB 2.0 type "A" Plug(male) to "B" Plug(male).

A

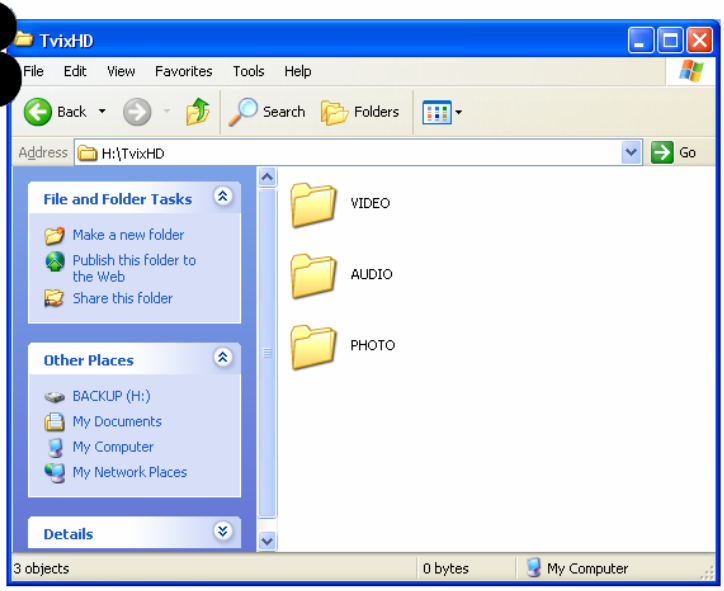


2. After connecting to the PC, turn on the power of the TViX.

3. Double click the icon 'My Computer' on your monitor and you will see a newly created drive; TViX (D:) as shown in picture 'A'.

(The name of the drive can be changed.)

B



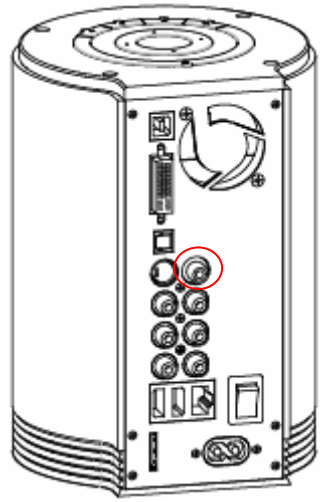
4. For easy usage, double click TVIX (D:) and make separate folders named video, audio, and photo. Then store all your files accordingly to each folder.

3.2 Video Connection

We support DVI, Component, S-Video, Composite video output for connecting to the TV and each output needed to change settings on the TViX HD.

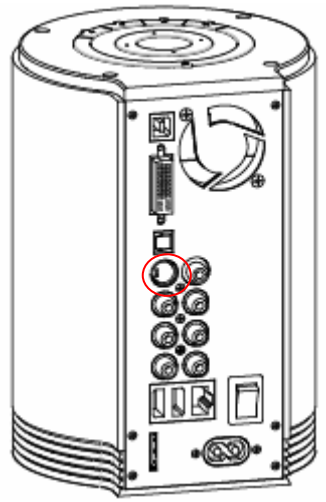
The highest quality components are as follows: DVI > S-Video > Composite.

3.2.1 Connection with an Ordinary (Composite) TV Output



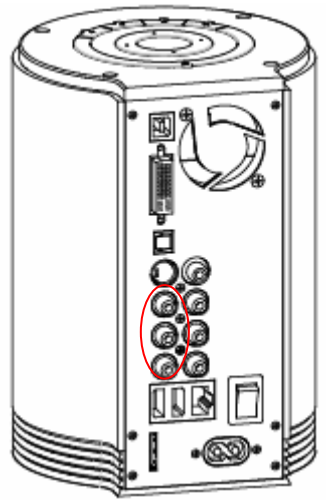
Connect the TViX HD and your TV using the yellow video cable.
Turn on the TViX HD and TV. Select an appropriate video input mode on your TV until you get the initial TViX HD screen.

3.2.2 Connection to S-Video Output



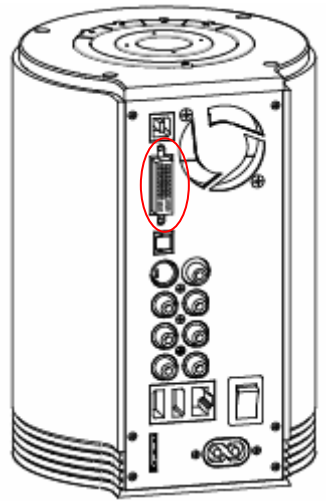
Connect the TViX HD and your TV using the S-Video cable.
Turn on the TViX HD and TV. Select an appropriate video input mode on your TV until you get the initial TViX HD screen.
(The S-Video cable is not included and has to be purchased separately.)

3.2.3 Connection to Component Output



Connect the TViX HD and your TV with the component cables.
Turn on the TViX HD and TV. Select an appropriate video input mode on your TV (in this case, the Component input mode).

3.2.4 Connection to DVI Output



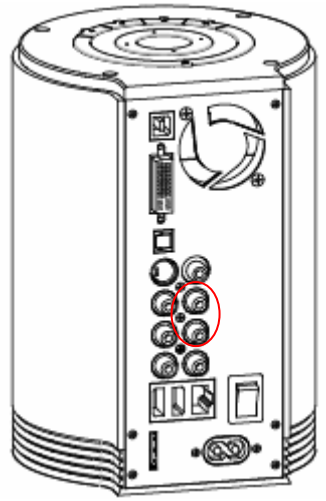
Simply connect your TViX HD to the DVI port on the TV.
However, if the TV has a HDMI port only, you need to buy a HDMI cable to convert the DVI data and then you will be able to see the processing digital signal.

CAUTION

After you connect the video cable to your TV, press the TV Out button repeatedly on your remote control until you get the initial TViX screen.
* The component cable is not included in the TViX and must be purchased separately.

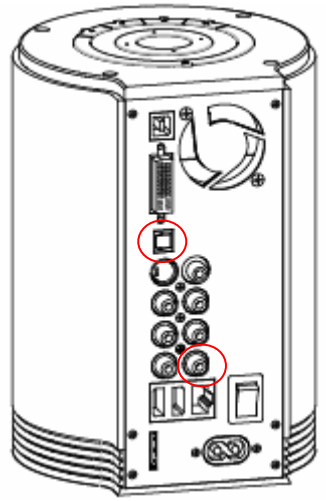
3.3 Audio Connection

3.3.1 Connection to 2 CH Normal TV



Connect the left(white) and right(red) sound output to the appropriate terminal of your TV or Hi-Fi system.

3.3.2 Connection to 5.1CH Amplifier (Digital)



If you have a multi-channel decoder/amplifier with an optical/coaxial input, you can enjoy 5.1 CH high quality sound through the coaxial or optical cables.
The illustration on the left shows where to connect the coaxial cable. Optical cable connection is done in a similar method.
(These cables are not included in the package and must be purchased separately.)

CAUTION

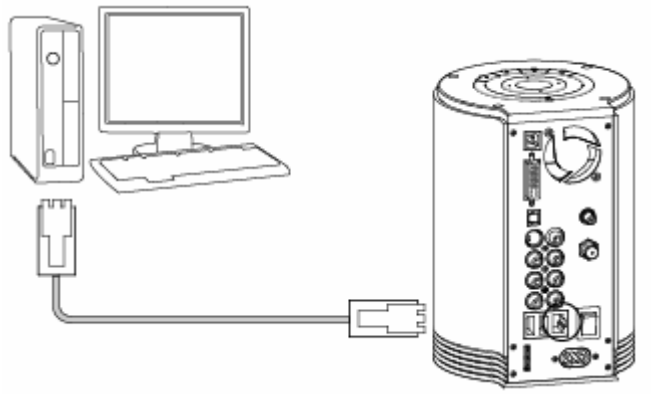
If no sound is heard after connecting the Optical or Coaxial Cable, you have to change the audio setup of TViX to Digital.

.

3.4 LAN Connection

3.4.1 Connect PC via Network

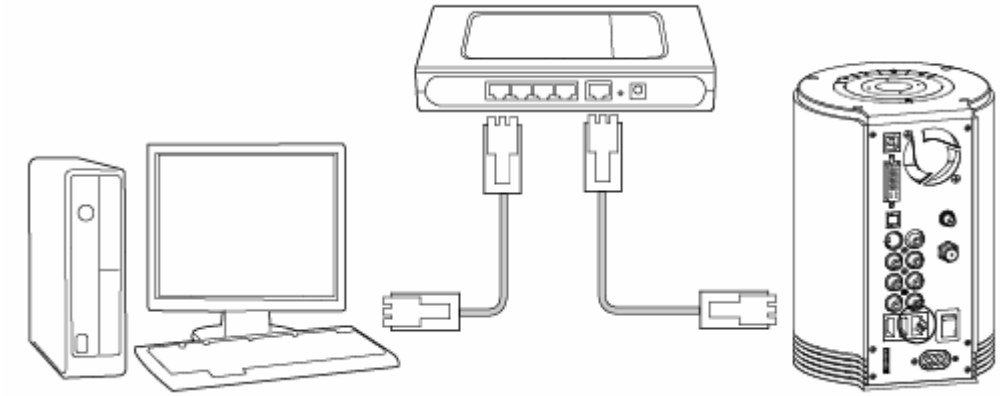
< When connecting the computer directly to the TViX HD >



Connect the LAN cable to the LAN port of both the TViX HD and the PC.

TIPS
In this case, you generally use a LAN cross cable type.
If the computer's LAN card was connected to an Internet line, you can install an additional LAN card to your PC and connect that LAN card to the TViX.

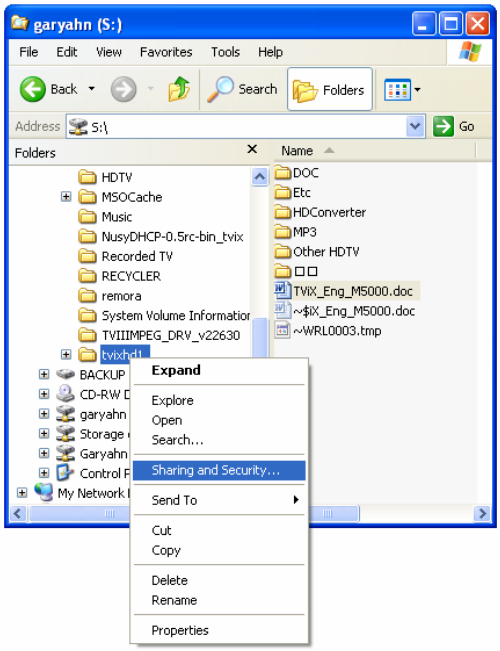
< When connecting with IP Router or Hub >



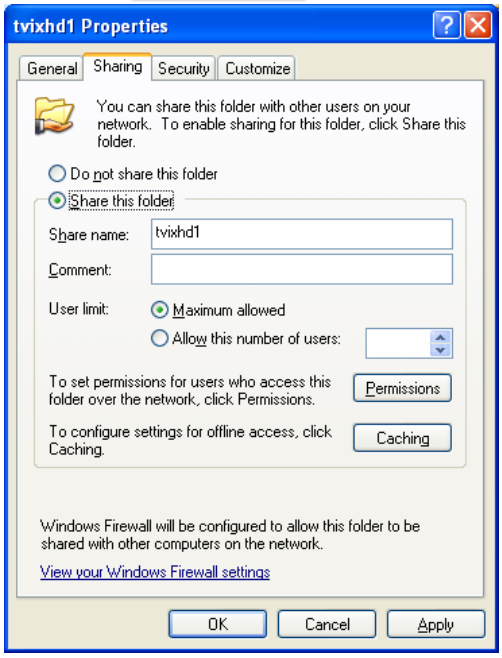
Connect the LAN cable to the LAN port for an IP Router or Hub.

TIPS
In this case, you generally have to use Direct LAN Cable type.

3.4.2 Set Network Configurations Under Windows XP

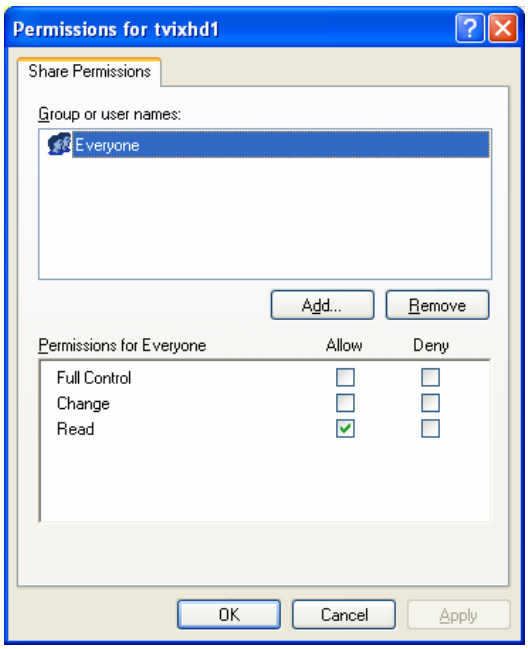


1) Select the folder you want to share. Right-click that folder and click 'Sharing and Security' in the popup menu.


tvixhd1 Properties
General Sharing Security Customize
You can share this folder with other users on your network. To enable sharing for this folder, click Share this folder.
Do not share this folder
Share this folder
Share name: tvixhd1
Comment:
User limit: Maximum allowed
Allow this number of users:
To set permissions for users who access this folder over the network, click Permissions.
Permissions
To configure settings for offline access, click Caching.
Caching
Windows Firewall will be configured to allow this folder to be shared with other computers on the network.
View your Windows Firewall settings
OK
Cancel
Apply

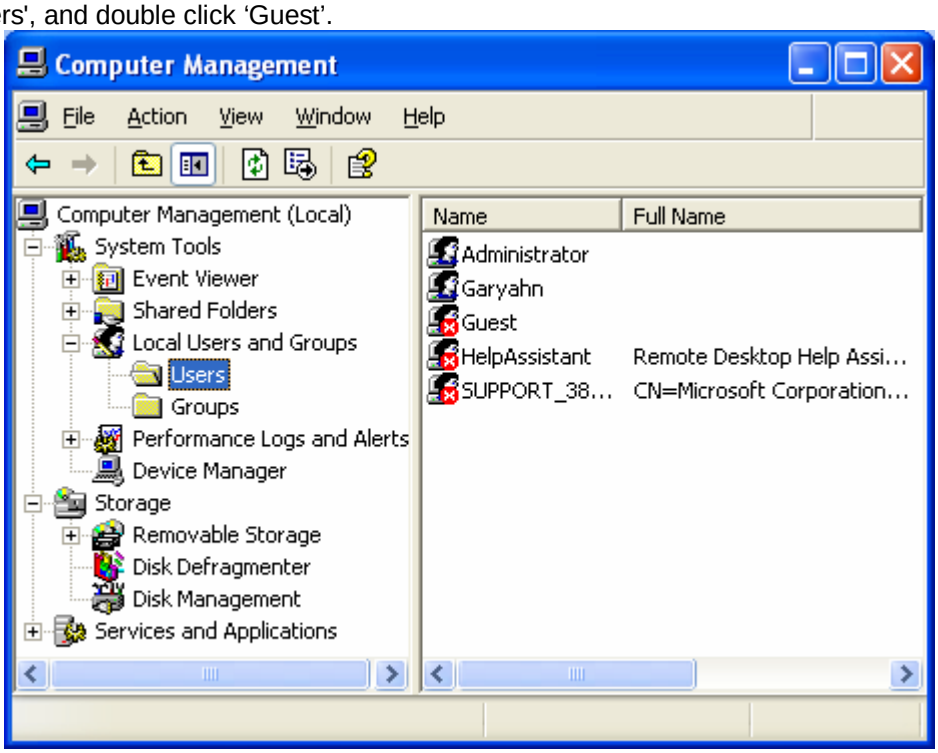
2) Check 'Share this folder' on the network and type in the share name 'tvixhd1 (this is the only available one at the moment)'.

3) Use 'Everyone' if 'Everyone' is displayed, otherwise you don't have to change anything. Also, add 'Everyone' to the security tab.



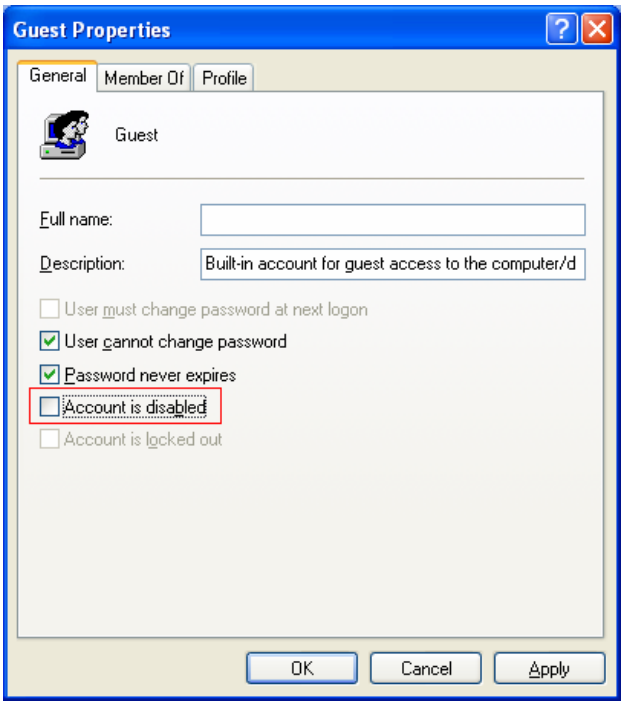
4) After that, the shared folder will be displayed like the following picture.

5) Move to 'Settings' > 'Control Panel' > 'Administrative Tools' > 'Computer Management' > 'Local Users and Groups' > 'Users', and double click ‘Guest’.

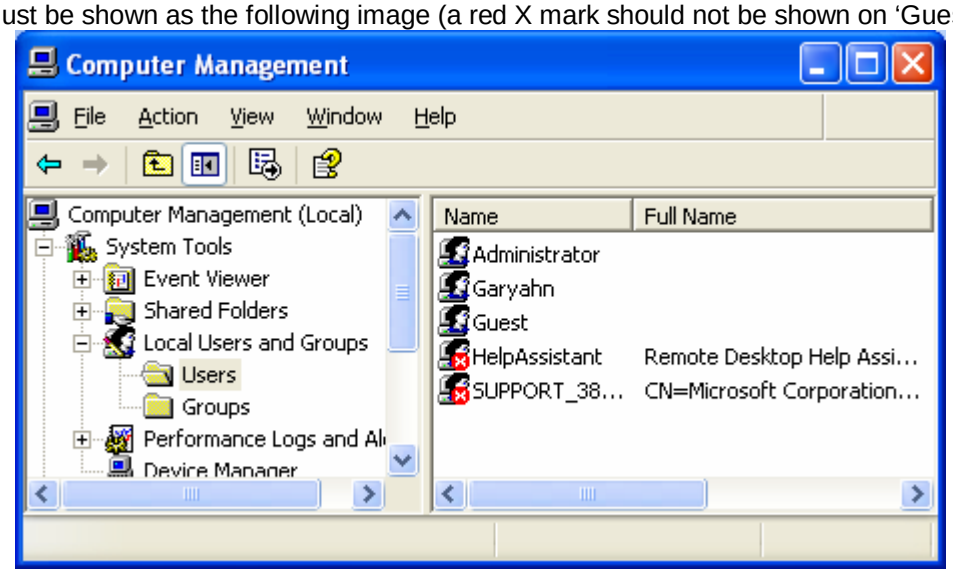


CAUTION
This is for Windows XP Professional. Windows XP Home users cannot see this window. If you cannot find ‘Administrative Tools’ in the Control Panel, click “Switch to classic view” in the upper-left corner of the screen.

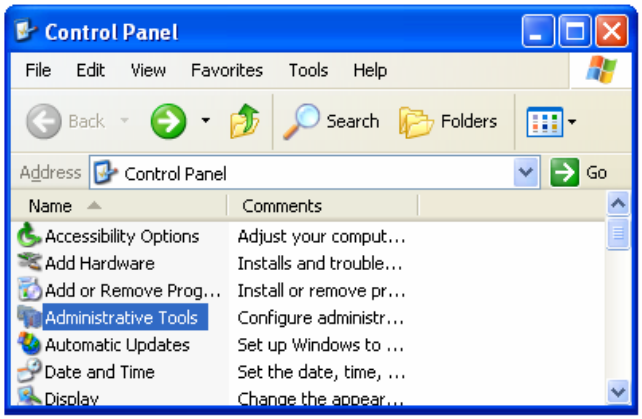
6) Uncheck ‘Account is disabled’

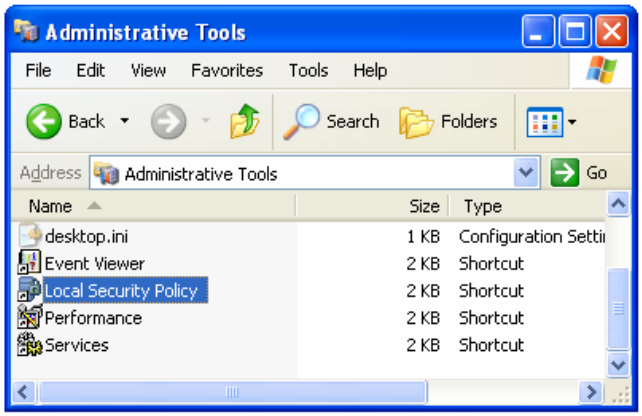


7) ‘GUEST’ must be shown as the following image (a red X mark should not be shown on ‘Guest’).

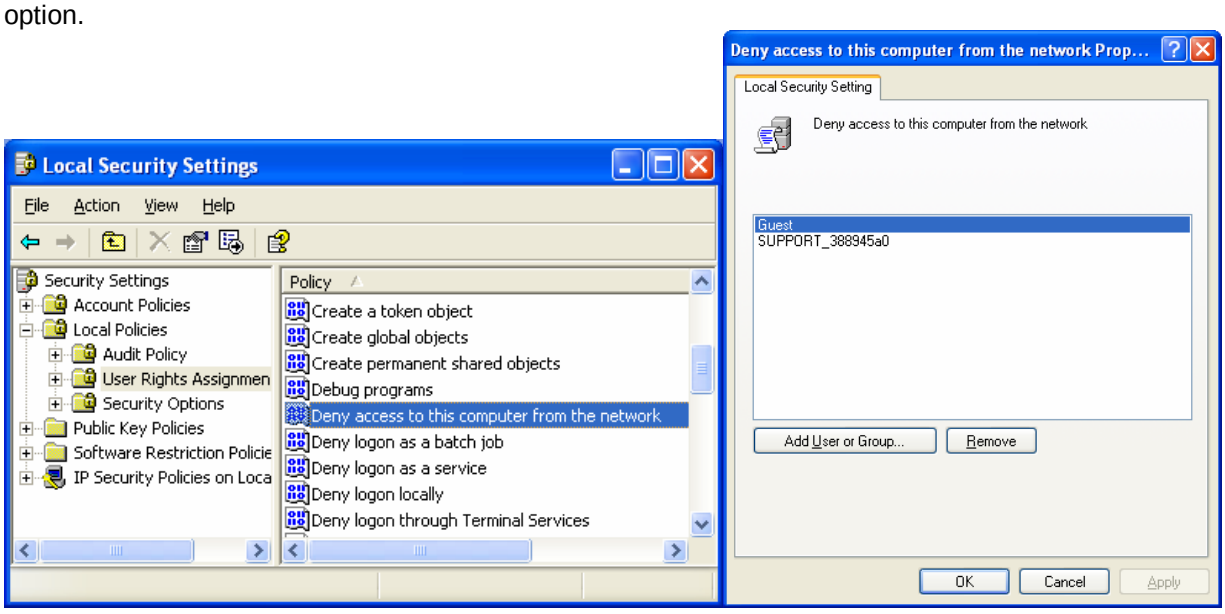


8) Move to 'Control Panel' > 'Network connections', and select ‘Local area connections’ properties by right clicking the mouse.

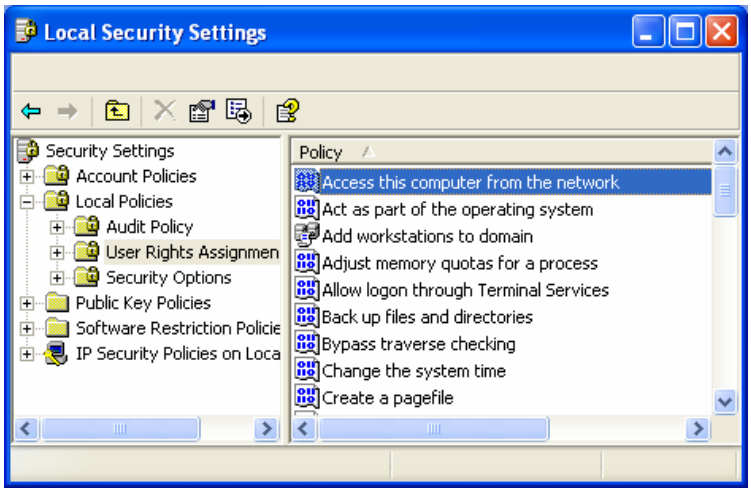


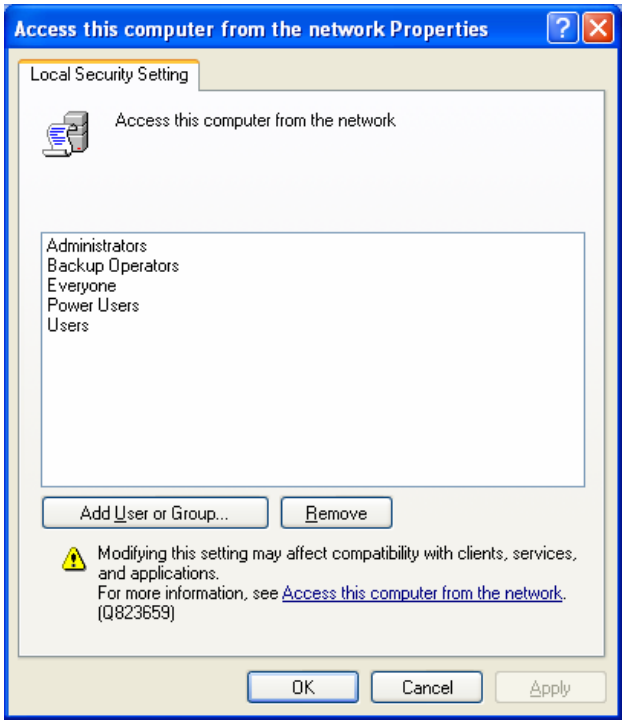


9) Remove “Guest” from the ‘User Rights Assignment’ > ‘Deny access to this computer from the network’ option.

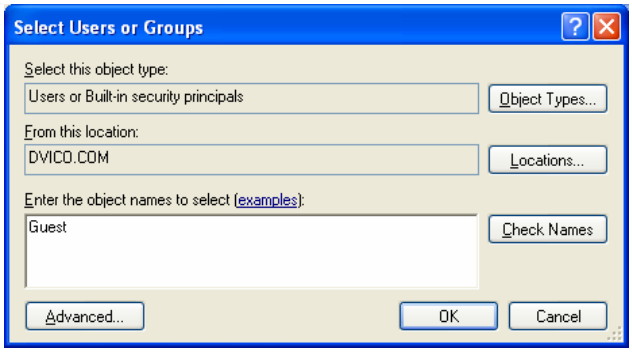


10) Move to ‘Access this computer from the network’, and then select ‘Properties’ by right clicking the mouse or double clicking it.





11) Click ‘Add User or Group’

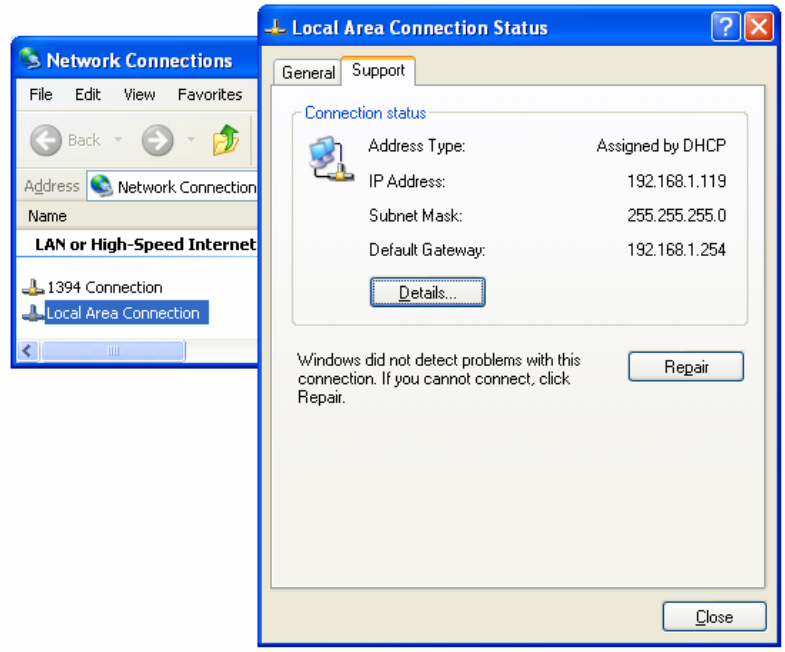


12) Type in “Guest” and then click the “OK” button.

13) Press OK, and Guest will be registered.

< When connecting with IP Router or Hub >

If you have already been provided a dynamic IP address from a DHCP Server or IP Router in your local area network, you don't need to write a static IP address. Use 'Obtain an IP address automatically on' or write an IP address & Subnet mask that the DHCP Server or the IP Router provides.
Select 'Control Panel' > 'Network Connections', and select 'Status' properties by right clicking the mouse. After clicking the Support tab, you should see an IP Address. (ex: 192.168.1.127)

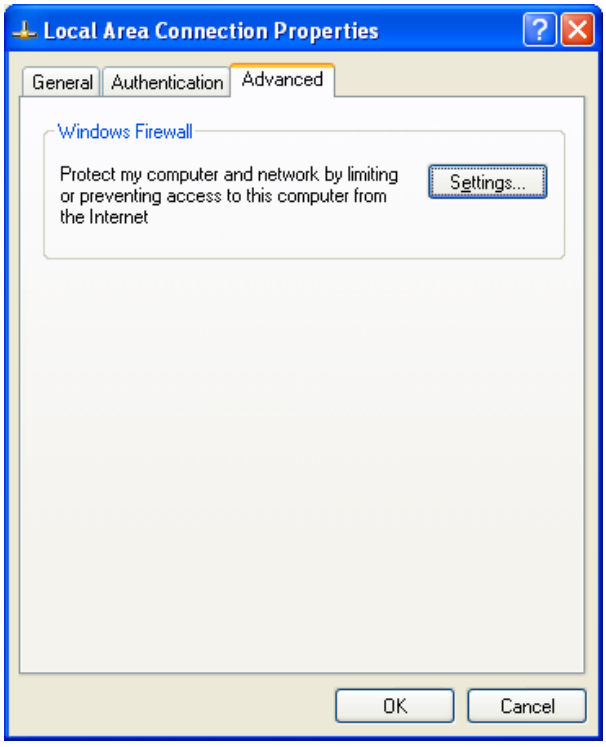


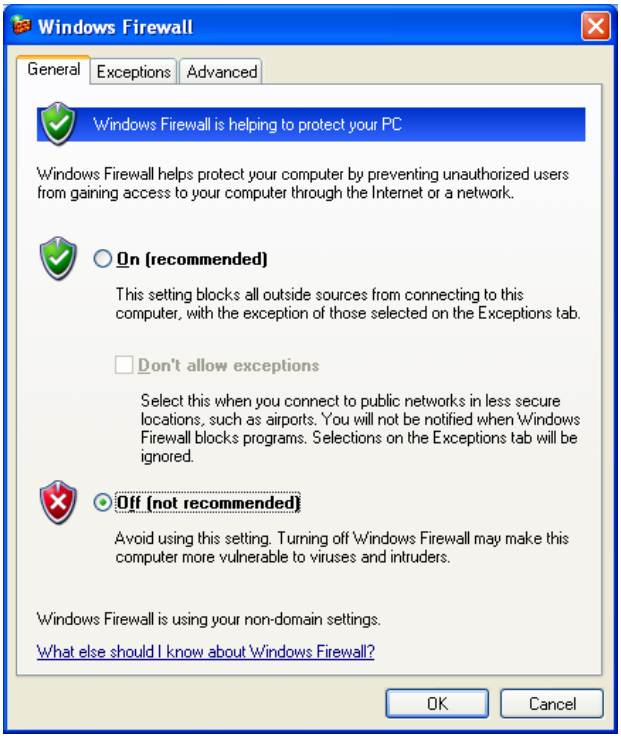
< Disable Windows Firewall >

14) Move to 'Control Panel' > 'Network Connections', and select 'Properties' by right clicking the mouse. Click the 'Advanced' tab. Disable 'Internet Connection Firewall'.

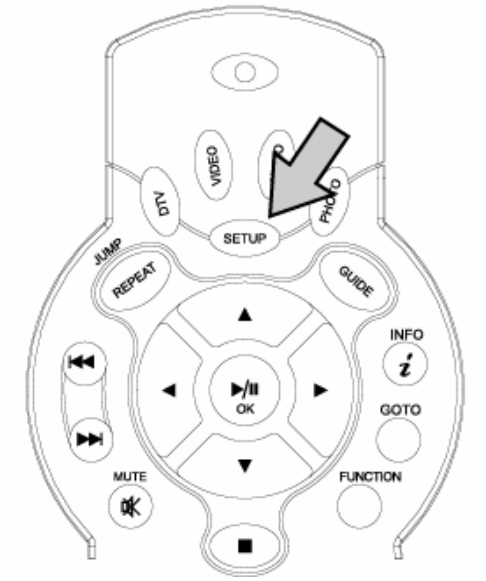
15) If you use service pack 2, click 'Settings' at 'Windows Firewall'.

16) Check 'Off' and then click 'OK'


Local Area Connection Properties
General Authentication Advanced
Windows Firewall
Protect my computer and network by limiting or preventing access to this computer from the Internet
Settings...
OK
Cancel

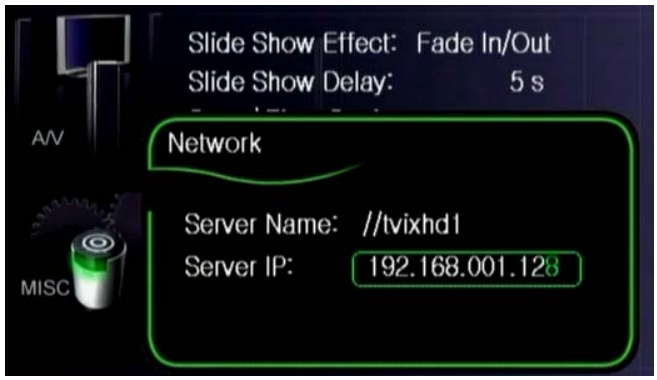

Windows Firewall
General Exceptions Advanced
Windows Firewall is helping to protect your PC
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
On (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
Windows Firewall is using your non-domain settings.
What else should I know about Windows Firewall?
OK
Cancel

3.4.3 Setting Network Configurations in TViX HD

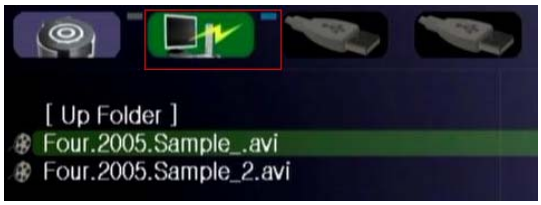


1) Press [SETUP] on the remote control to view the setup screen. On that screen, select MISC setting-Network disk and write the IP address in the Server IP. (ex: 192.168.001.127)

2) Then press [SETUP] again to save the configuration.



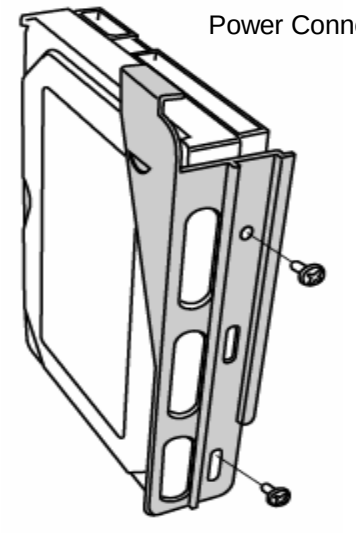
3) When the setting is successfully finished, you will be able to see the shared folder.



4) You may check for detailed usage at the TViX website (www.tvix.co.kr)

3.5 HDD Installation/Exchange

Warning: If you change the HDD of a TViX equipped with an HDD, the warranty will be voided.



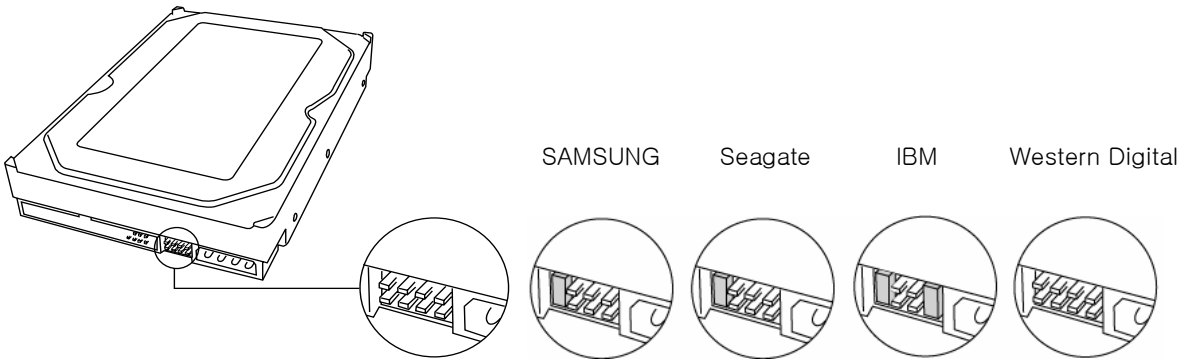
1. Assembling the TViX HD is very easy. Just follow the instructions below:

Use a driver and screw the hard disk on to the guide board.

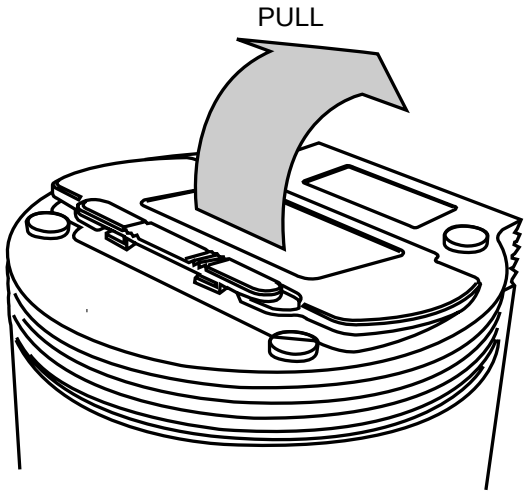
Set the jumper to ‘Single Master’.

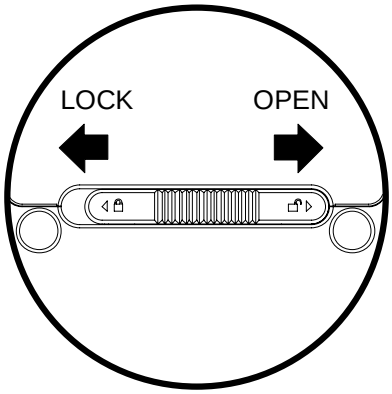
< Jumper Settings >

The ‘Jumper Setting’ differs according to the HDD manufacturers, so please refer to the instructions of the specific HDD provided by the HDD manufacturers.

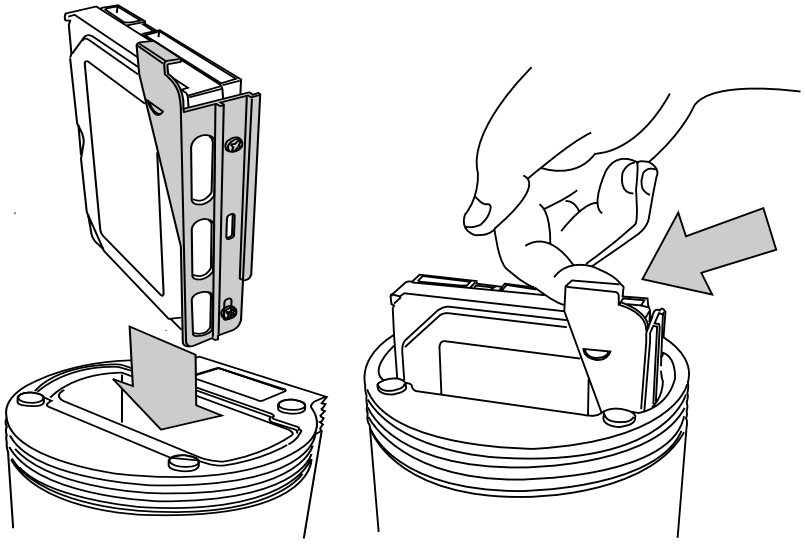


2. Open the cover case in the direction of the arrow.



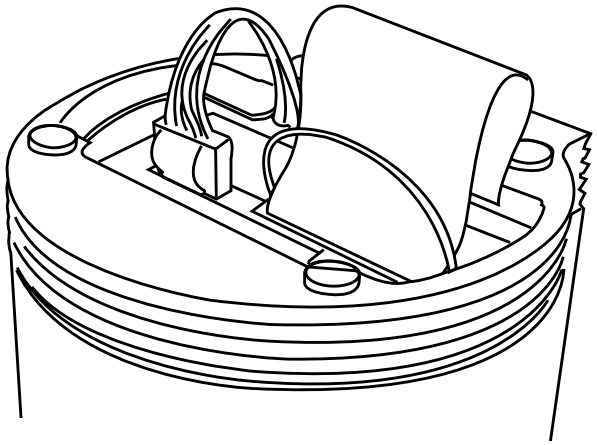


3. Place the HDD in the TViX HD board.

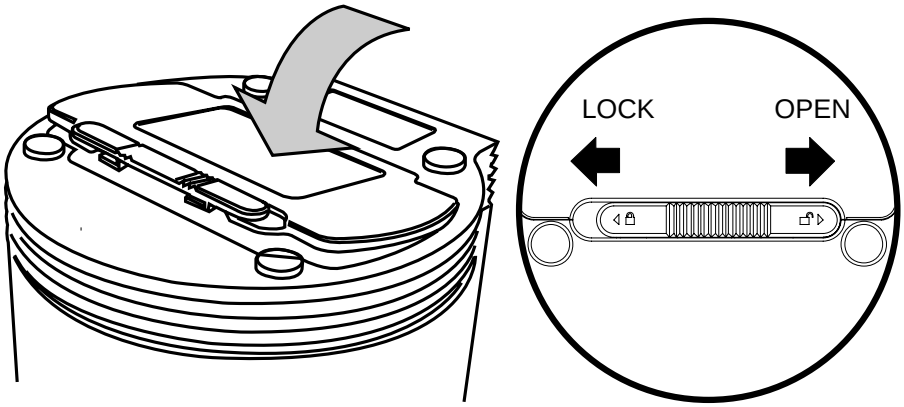


4. Connect the power cable and the IDE cable. When inserting the HDD, take precautions to protect the IDE cable from being damaged.

POWER Cable IDE Cable



5. Close the case by pushing the cover towards the direction of the arrow and then lock it.



4 TViX HD Setup Menu

4.1 Audio/Video Setting

This section indicates the Audio/Video settings.

* **Analog :** Select this when you connect the audio with a stereo RCA cable (the RED and WHITE cable)

* **Digital :** Select this when you connect the audio with an optical or coaxial cable for digital audio connection to the Decoder/Amplifier. There will be no analog audio out from the analog audio port of the TViX HD.

* **TV Standard** : The default video setting of the TViX HD is COMPOSITE (NTSC/S-VIDEO or PAL C/S-VIDEO). This is the most general setting and works with almost all TVs.

* **TV Type** : 4:3 Letter Box / 4:3 Pan & Scan for ordinary TVs / 16:9 for Wide TVs like HDTV or Plasma TV.

If the ratio of the TV is 4:3, select the 4:3 letter box or 4:3 Pan & Scan. If the ratio is 16:9, select 16:9.

* The 4:3 Letter box can show the original ratio of the multimedia file in 16:9.

* The 4:3 Pan & Scan will adjust the image of the 16:9 multimedia file to the 4:3 of the TV screen by scaling the image.

* 16:9 can adjust any ratio of the multimedia file to the TV screen with the original image.

* **Video Port :** If you fail to see the initial TViX HD screen after turning the unit and TV on, make sure you have chosen the right TV out option by repeatedly pressing the TV Out button on the remote control. NTSC C/YPbPr(480i), PAL C/YPbPr(576i) is a special case. Select these settings if your TV is connected to TViX HD with a component output.

* **Video Out Mode :** Select this when you connect the video through a component (YPbPr) cable. You can select the output resolution among 480P/720P/1080i. Setting it to 1080i will work on all HD grade TVs.

* **Apply Now** : After configuration, please press 'Apply Now' to save the Video out state.

If you want to exit the Setting, Select the EXIT button and then press OK on the remote control.

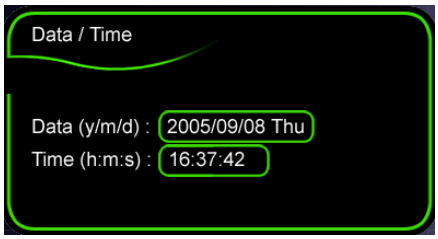
4.2 MISC Setting

This section indicates the MISC settings.

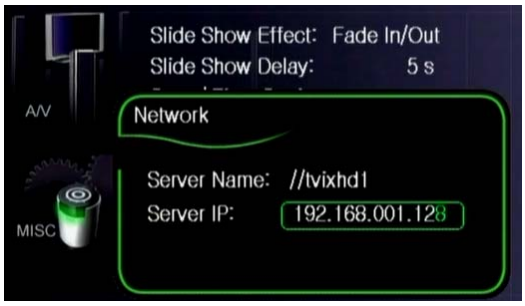
* **Slideshow Effect** : This is used when playing background music while watching picture slideshows.

* **Slideshow Delay** : You can set the slide show time interval (0 sec – 60 sec)

* **Date / Time Setting** : You can adjust the clock on the VFD by using the arrow and numeric keys.



* **Network Disk** : Enter your system's IP address. (ex: 192.168.001.127)
Then press the SETUP button to save.



*** Network Info** : If you wrote your system's IP address properly, you should be able to see the Network information.

*** FAN Speed** : You can select your Fan Speed. We recommend the Normal setting.

* **Select Language** : Select your language preference.

* **Autorun** : You can listen to music(audio files) without display(TV). If you select "shuffle", it plays randomly.

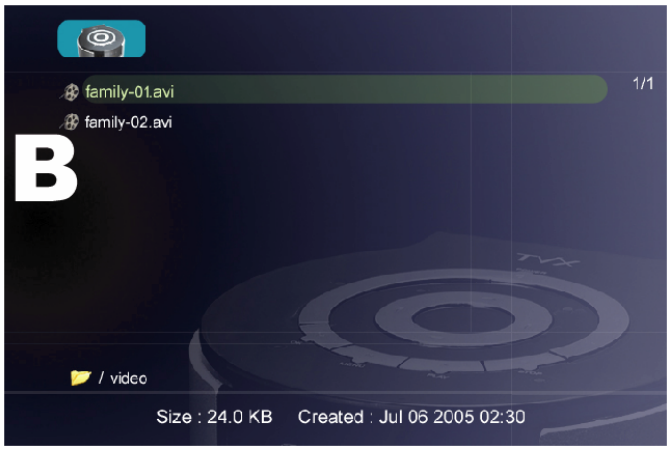
*** OSD Display** : You can select the type of OSD display. We recommend to select the Normal mode.

5 Easy Usage of TViX HD

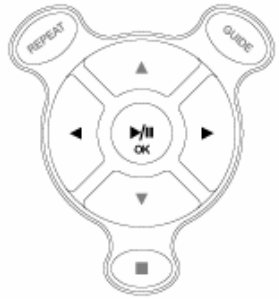
5.1 Play Video Files

When installation is successfully finished, you will see screen A.
You may copy a video file into the VIDEO folder in advance.

1. SETUP, VIDEO, AUDIO, PHOTO icons.



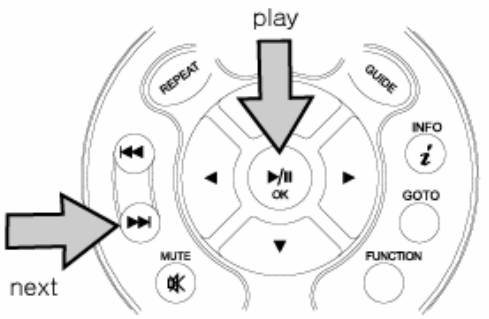
2. Select the Video icon by using the Left/Right button. If you want to change the partition of the HDD, press the Jump/Repeat button.



3. After selecting the icon, press the OK button.

4. You will see 2 files in the Video folder.

5. Using the up/down button, select the Video file. By pressing the OK button, you will be able to play the video file.

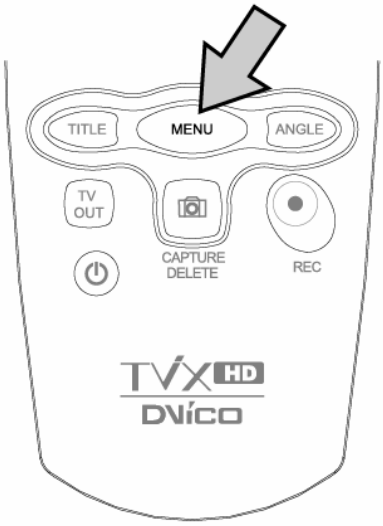


TIPS
If you want to play the next video, press the NEXT(>>|) button.

5.2 Play Audio Files

You may copy an audio file into the AUDIO folder in advance and play music files.

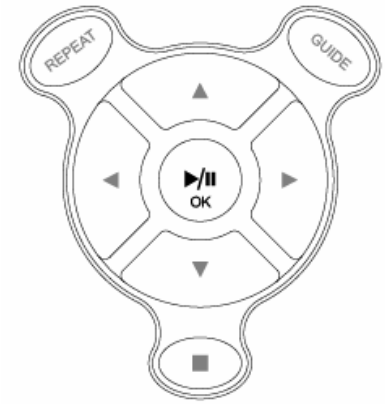
1. If you cannot see screen A, press the MENU button on the remote control.



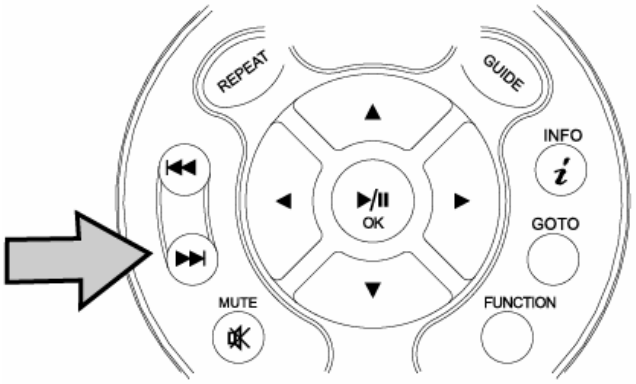
2. Select the Audio icon on screen A and press the OK button.

3. You will see the audio file that you just copied.

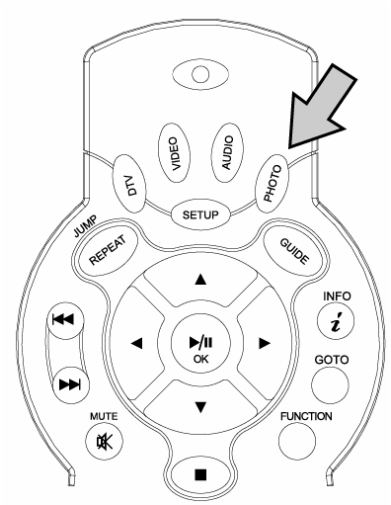
4. Select the audio file using the up/down button. Then by pressing the OK button, you can easily play the audio file.



TIPS
If you want to play the next video, press the NEXT(>>|) button.



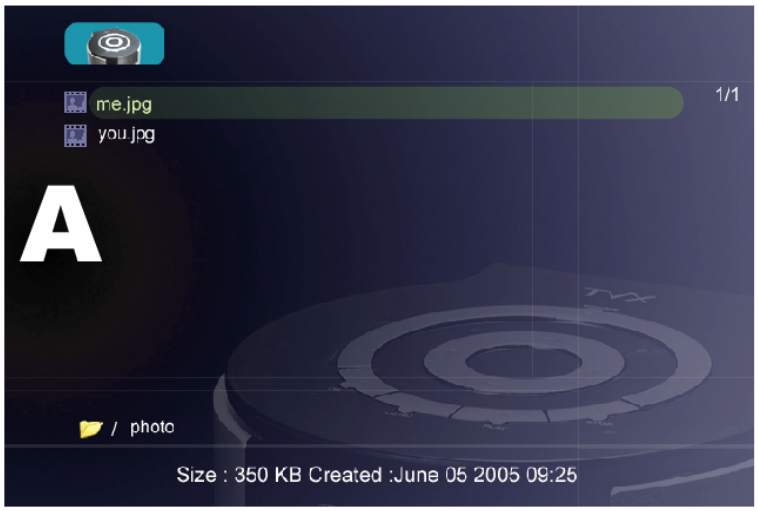
5.3 Play Image Files



You may copy image files into the PHOTO folder in advance and play the image or photo files.

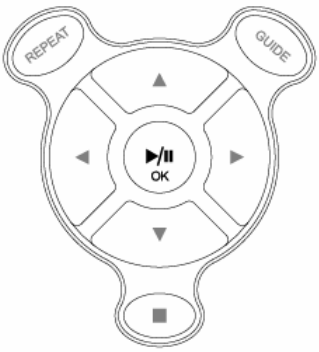
1. You may press the PHOTO button on the remote control without selecting from the menu screen.

2. Press the PHOTO button.



3. You can see the image files that you just copied.

4. Select the image files using the up/down button. By pressing the OK button, you can easily play the image files.

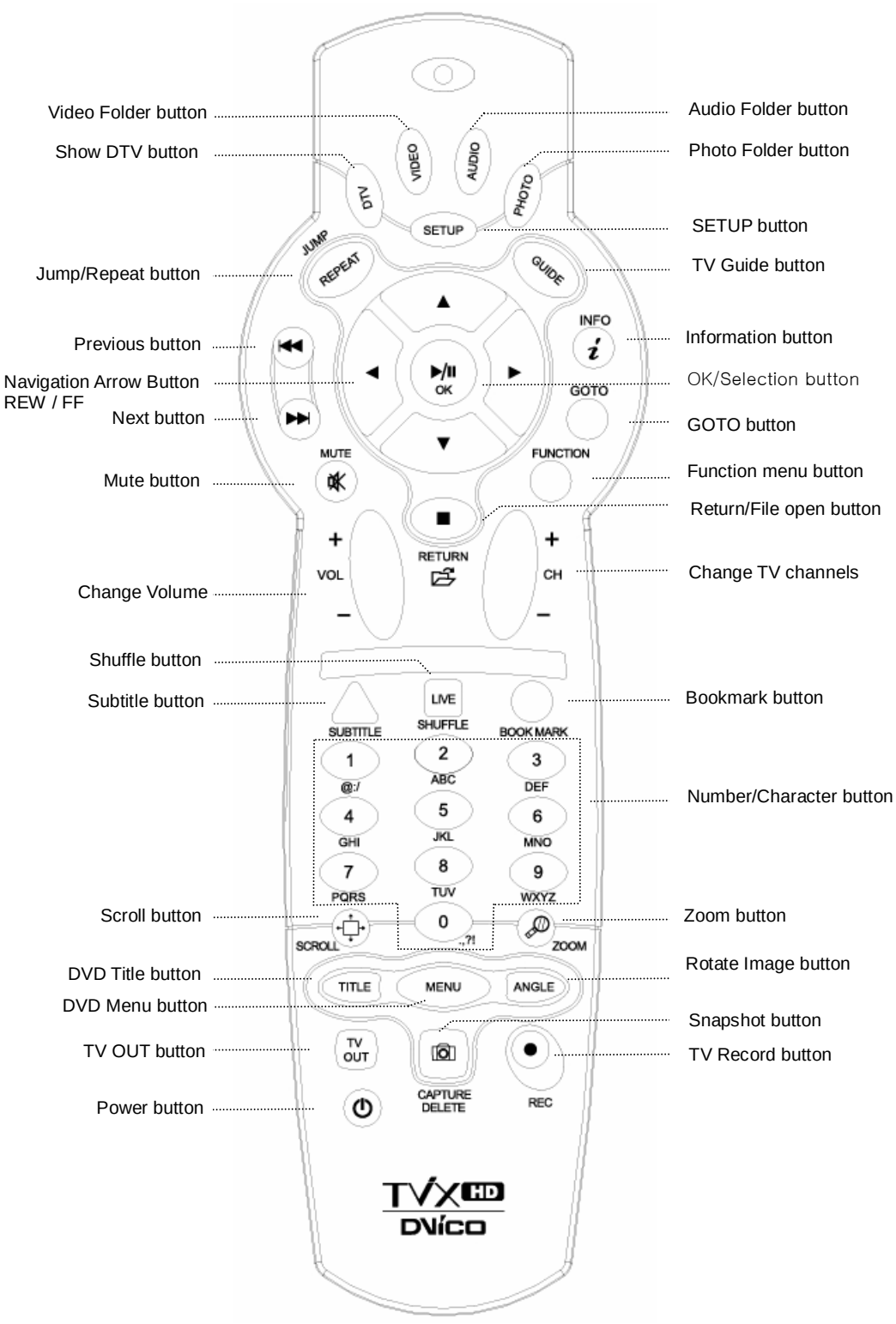


5. If you want to play the next video, press the NEXT(>>|) button.

TIPS
ou can play the Video and Audio as well as the Photos with the remote control.

6 Using the remote control

6.1 Basic Functions



When the File list menu, 1/2/3/4 : used to change the partition (partition 1/ partition 2/ partition 3/ partition 4)

6/7/8/9 : used to change the Drive (Local/Network/Usb1/Usb2)

< Changing Batteries>

- Use new batteries (2 AA size batteries are included in the package).

6.2 Descriptions of Each Buttons

The playback of multimedia files.

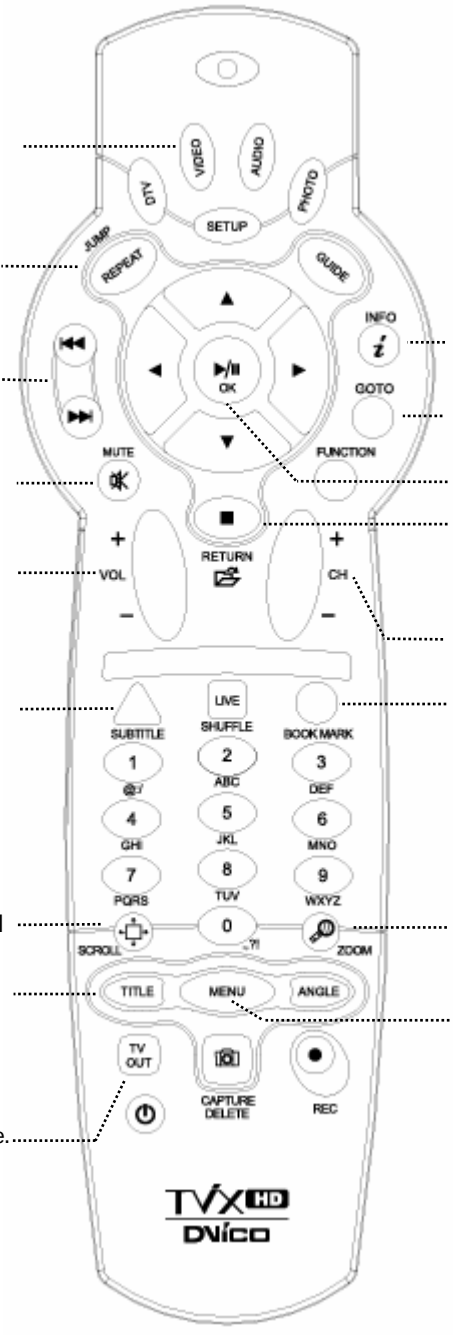
Basically you can choose the file you want and press the OK button.

For playback of DVD files copied to the HDD, please locate the cursor to **VIDEO_TS.IFO** file and press OK.

You can do a full DVD navigation like you would do with a DVD player.

6.2.1 Video Playback

When you press the VIDEO button on the remote control, only the VIDEO folder will show on the TViX HD.
This only applies to the active partition if you have more than one partition.
When you press the **JUMP/REPEAT** button on the remote control, you can select another input source.



Video File Filter

You can repeat the selected section with this button.
When stopped, it can be used for selecting the source.

When playing contents, you can skip or go to the previous contents with these buttons.
When stopped, it can be operated as the page up/down keys.

Mute

Volume

Change the Subtitle

Screen Scroll

DVD Title

Select TV Out Type.

File Information

By inputting the time you can go to the frame you want.

Play/Pause

Go to the Previous Menu

Sync of Subtitle

Bookmark

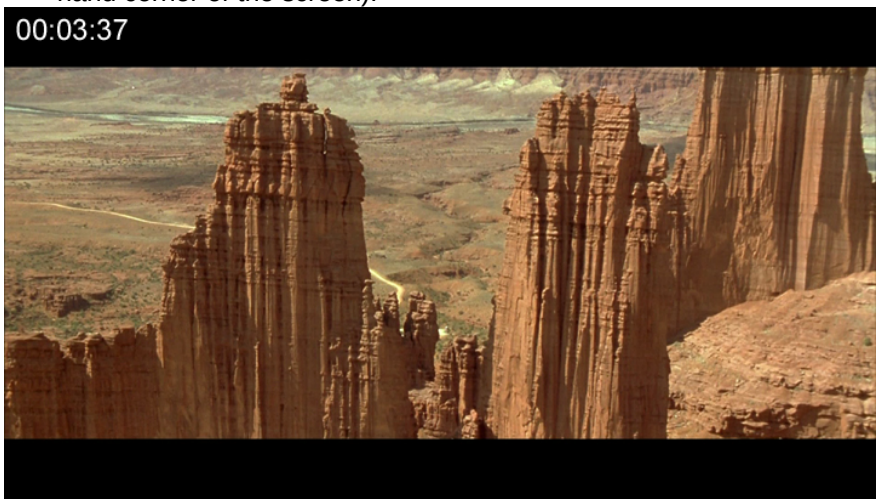
Screen Zoom

DVD Menu

<NOTE>

- INFO Button :
  - First Press – Shows information of the contents.

  - Second Press – Shows the elapsed time (the progress bar is displayed on the upper left hand corner of the screen).



  - Third Press – Show remain time.
  - Forth Press - INFO off

- SUBTITLE Button :
  - Supports SMI Multi-subtitle control with the Subtitle button.
  - First Press : Shows the Subtitle OSD. You can change the subtitle sync using CH +/-
  - Subtitle font size is configurable on the SETUP menu.
  - Supports .SUB (bitmap) + .idx subtitle files
  - PAL format .SUB subtitles are not supported in this version.

  .

- ZOOM Button :
  - First Press – Zoom, you can change the size by pressing the arrow buttons.
  - Second Press – Full screen
  - Third Press – PAN&SCAN full screen
  - Fourth Press – Zoom Off

- BOOKMARK : If you stop the movie, the stop position will be automatically saved and you can resume it later anytime by pressing the "bookmark" button on the remote control.
- The present playing time will be displayed with the GOTO function.

- SETUP Button
  - Picture adjustment. Contrast → Brightness → Saturation.

* Press the VIDEO button and you can filter video files among those stored in the TViX HD.

TIPS
* Improved to save up to ten bookmarks on eight individual files. (It cannot save ten bookmarks on a single file.)
* Recognizes AVI, MPG, VOB, CAT, M2P video files only.
* A video file where the folder is setup with a password cannot be saved.
* When replaying the same file, only the last play position will be saved (thus, bookmarked).
* Among the bookmark list, a file deleted from the hard disk will be automatically deleted from the bookmark list as well.
* Cannot save the bookmark list when in USB HOST or LAN mode.

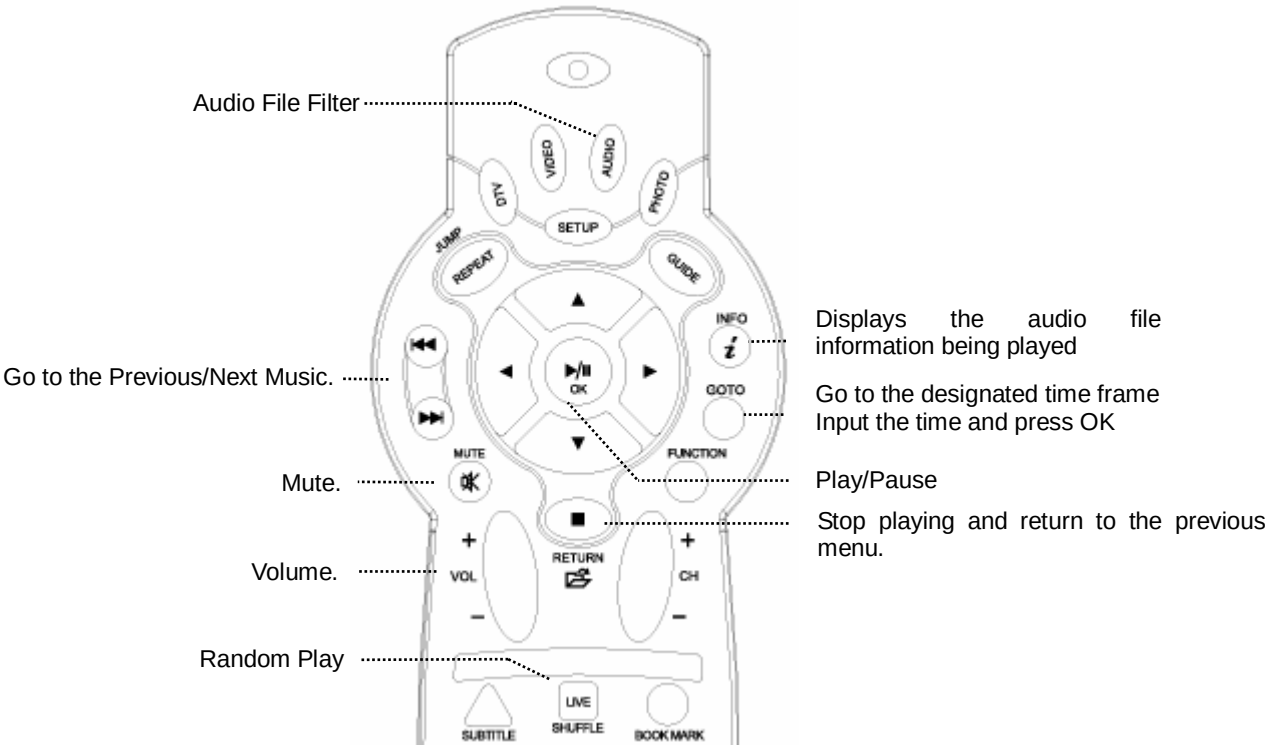
< DVD Jukebox Key >

- OK Button - When a movie is playing it operates as a play button. In the menu screen it operates as a select button.
- PAGE-DOWN - Go to the next chapter.
- PAGE-UP - Go to the previous chapter.
- AUDIO Button - You can change the audio. (International dubbing, DOLBY, 2CH, 5.1CH, DTS etc.)
- SUBTITLE - Shows the subtitle menu.
- MENU Button - Shows the DVD menu screen.
- TITLE Button - Shows the DVD title menu.
- ANGLE Button - If the DVD title has an angle function, you can change the angle.
- GOTO Button - You can choose the time, chapter and title. After choosing you can play directly.
- Number + OK - Play the chapter of the number directly.

** The operation of “PICTURE” and “VOLUME UP/DOWN” is the same for Video operation.

6.2.2 Audio Playback

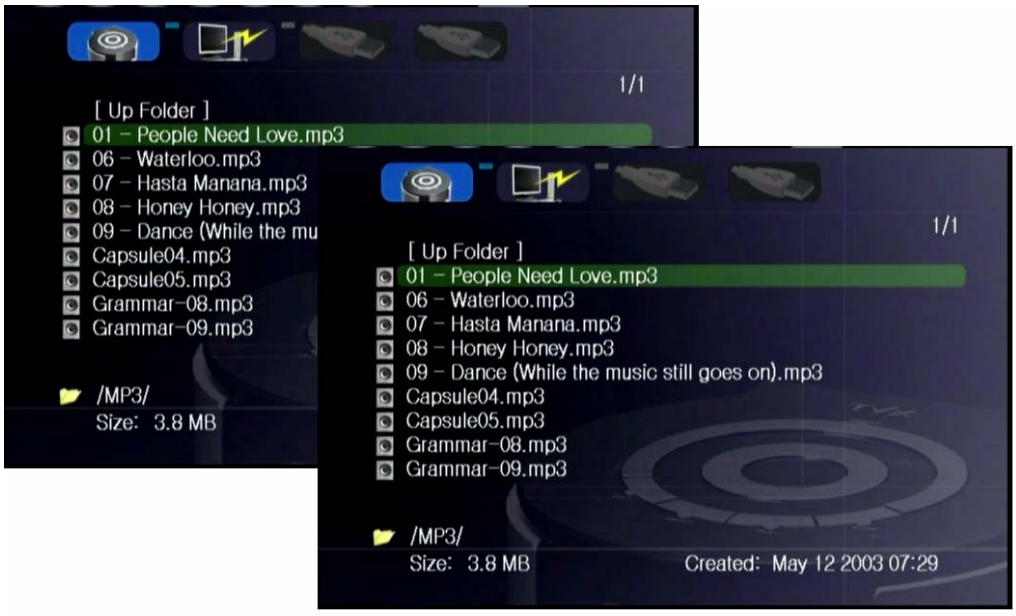
When you press the AUDIO button on the remote control, only the AUDIO folder shows in the TViX HD.
It applies only to the active partition if you have more than one partition.



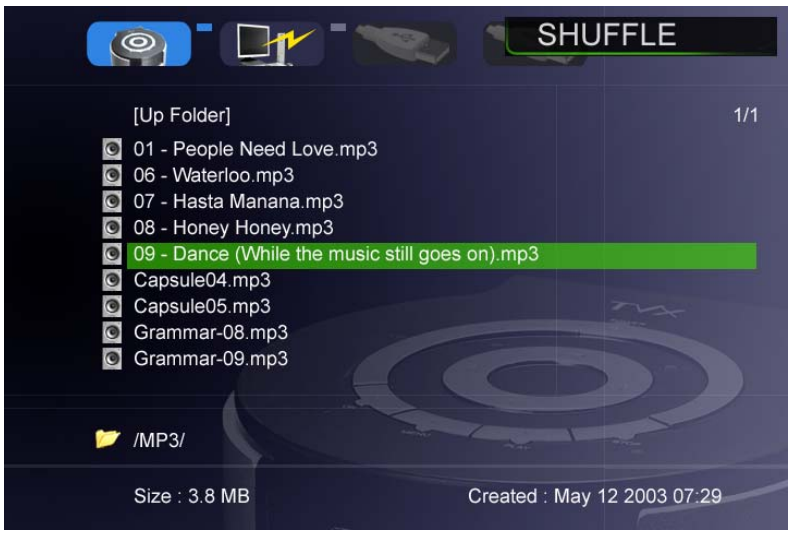
<NOTE>

** Some functions require firmware updates first.

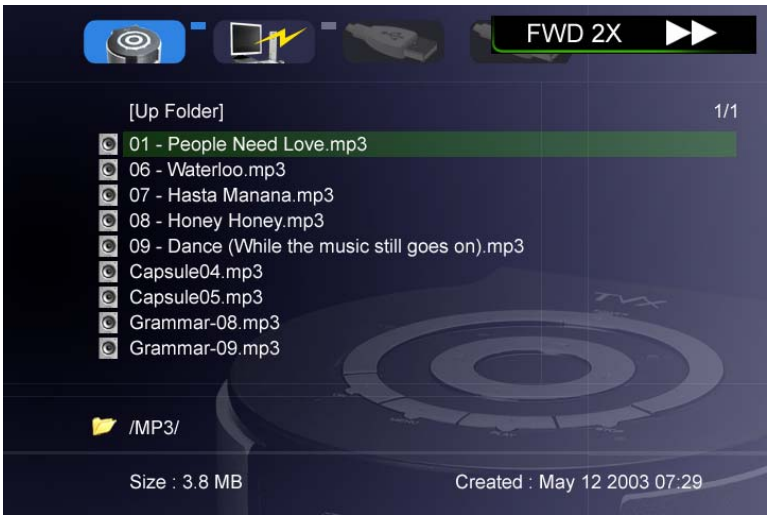
- Press the AUDIO button and you can filter video files only among the files stored in the TViX HD.
  It applies only to the active partition if you have more than one partition.



- Shuffle Function (Random Playback)
  - Press the Shuffle button to play the files of the present directory randomly.
  - Press the Shuffle button again to disable the shuffle mode.



- Supports FF/REW, and GOTO functions when playing WMA, WAV files.

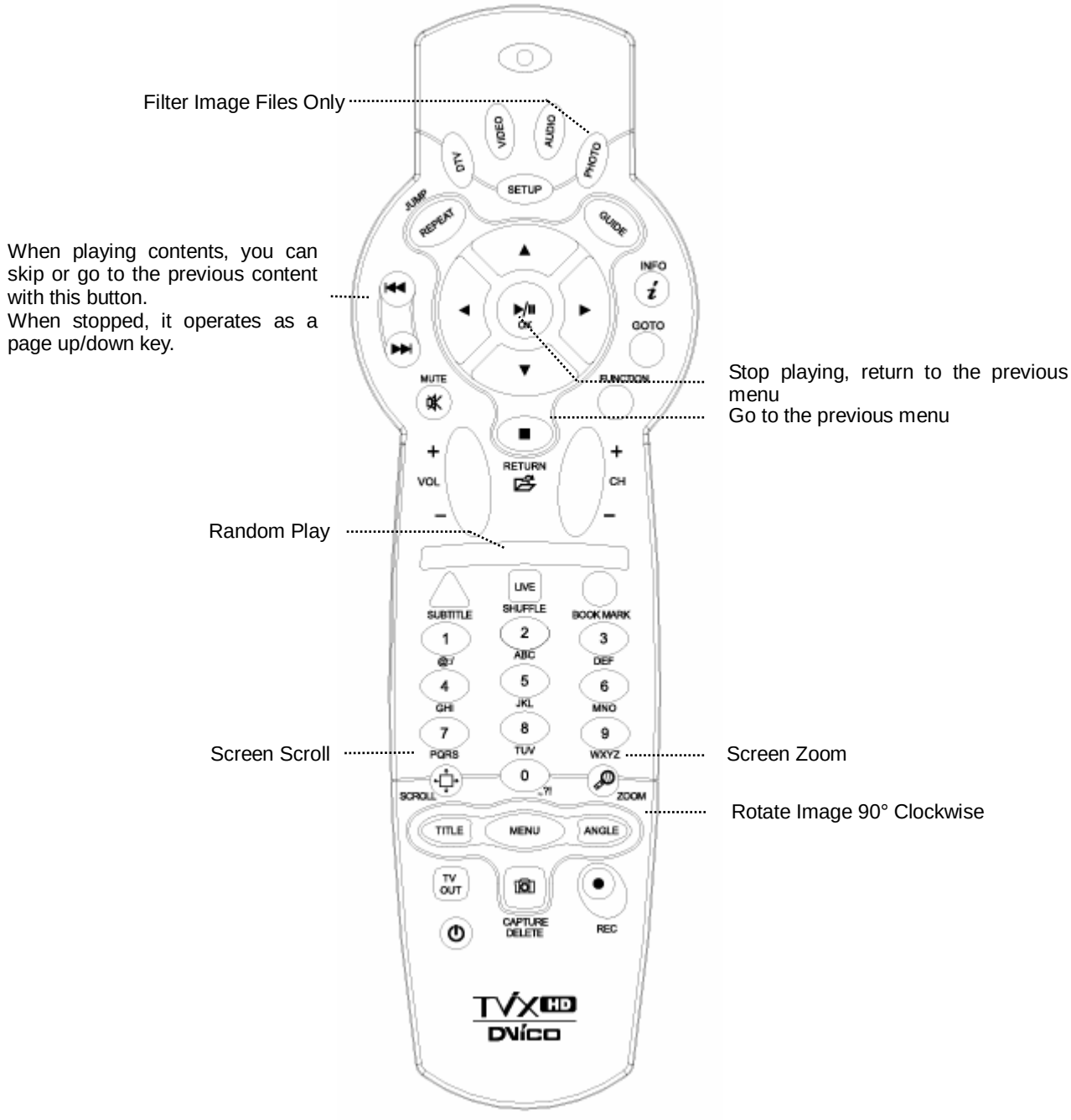


- Supports Lyric Files (.lrc)
  If the file name of a music file and .lrc file are the same, the lyrics will be displayed automatically.

- Supports ID3 TAG (ID3V1) when playing MP3 files
  - Press the INFO button to view the ID3 TAG (ID3V1).
  - You can see additional information recorded on the MP3 files, such as the artist, album etc.
  - OGG also displays basic Tag information

6.2.3 Image Playback

Only the PHOTO folder will show in the TViX HD when pressing the PHOTO button on the remote control. It applies only to the active partition if you have more than one partition.



<NOTE>

- You can set the slideshow time interval at the SETUP menu.
- You can change the size of the picture with the ZOOM and SCROLL button.

- Some non-standard JPEG files may not be displayed
- You can rotate pictures by setting the ANGLE button.

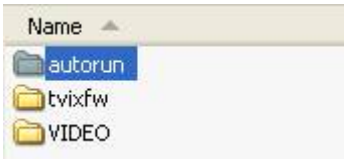
- If you press the SETUP button, you will see in sequence the Contrast → Brightness → Saturation menus. In these menus, you can adjust the Contrast, Brightness and Saturation by pressing the left/right arrow buttons.

6.3 Extra Features

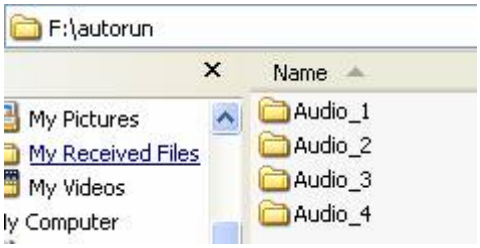
6.3.1 Using the AutoRun Function

When you want to play music with the TViX HD but do not have any display devices, the following function may come in handy.

1. Make a folder and name it, “autorun” in the root directory of the First partition.



2. Copy media file(s) or make a sub-folder in the “autorun” folder.



3. If you want to change the setup, push the SETUP button on the remote control. Then go to the SETUP/MISC tab. Set AutoRun option to ON. If you set the AutoRun option to OFF, the function will not work. If you select ‘Shuffle,’ files will play randomly.

4. After setting the configuration, turn off the TViX HD and then turn it on again. The TViX HD will play the media file from the first sub-folder under ‘/HDD1/autorun’.

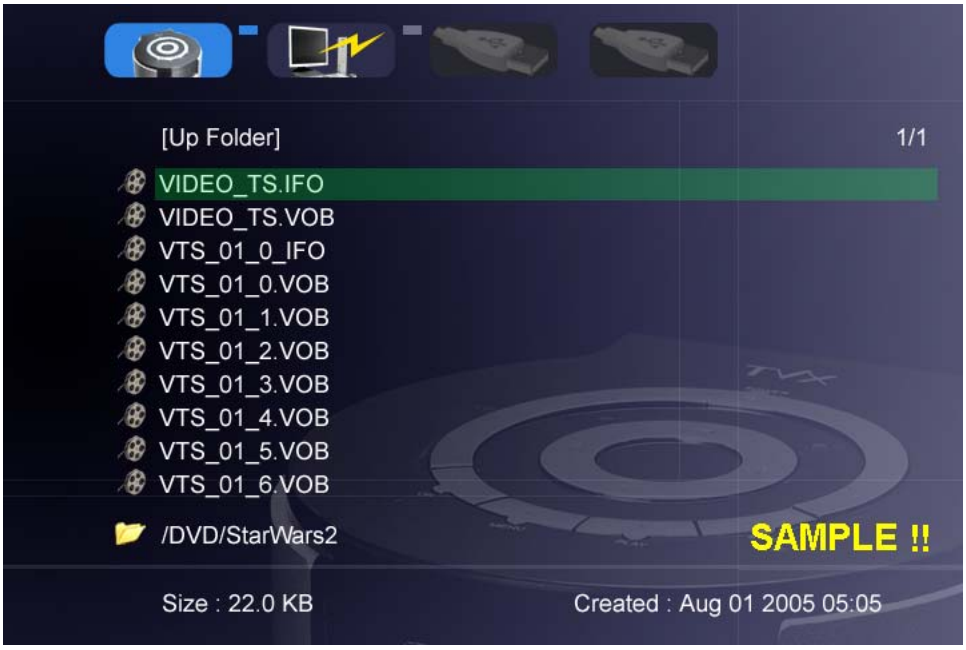
<NOTE>

- TViX HD will play files in the sub-folders first and then it will play the files in ‘/HDD1/autorun’. After the TViX HD plays all the media files, it will be repeated again from the beginning.
- If you press the buttons 1~9 on the remote control when playing, the TViX HD will play the first sub-folder to the 9th sub-folder in that order.
- Currently, TViX HD supports only a maximum of 9 sub-folders. The AutoRun function will also work with the PLAY button on the remote control (the OK button will not work).

6.3.2 Using Wallpaper

If you put a JEPG file named "TViX.jpg" under the folder which you want to change the wallpaper, the wallpaper of the folder will be changed.

You can select any wallpaper you want by using the various JPEG files of different folders.

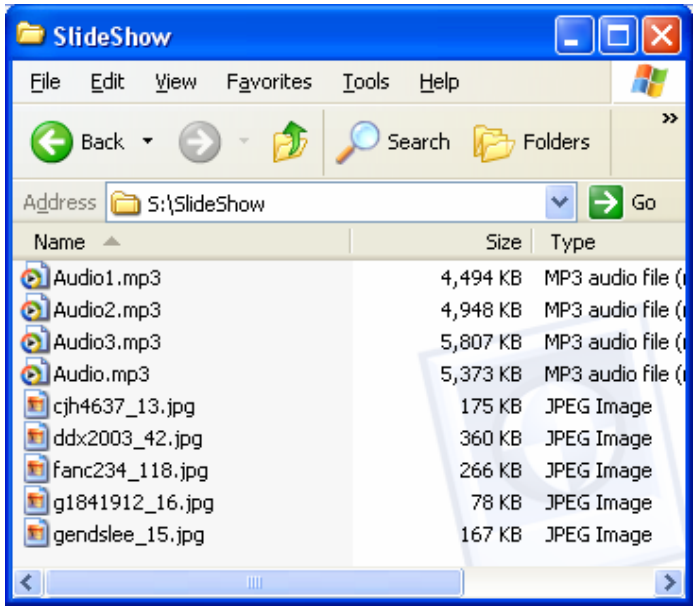


<Tips>

- If you want to change the basic wallpaper, put a JPEG file named TViX.jpg under the Root directory.
- You can use both lower and capital letters for the file name “TViX.jpg”.
- 720*480 pixel is recommended for the size of the wallpaper.
  (A larger size may increase the loading time)
- In Windows XP, when you name the JPEG file, “Hide extensions for known file types” should be unchecked in the Tool-Folder Option-View-File/Folder. Otherwise the JPEG file could be named as TViX.jpg.JPG and you would not be able to see your desired wallpaper.

6.3.3 Playing Background Music while Watching Picture Slideshows

(1) Make a slideshow folder in the HDD of TViX HD and copy the MP3 and image files (ex: Slideshow).


SlideShow
File Edit View Favorites Tools Help
Back Search Folders
Address S:\SlideShow
Go
Name Size Type
Audio1.mp3 4,494 KB MP3 audio file
Audio2.mp3 4,948 KB MP3 audio file
Audio3.mp3 5,807 KB MP3 audio file
Audio.mp3 5,373 KB MP3 audio file
cjh4637_13.jpg 175 KB JPEG Image
ddx2003_42.jpg 360 KB JPEG Image
fanc234_118.jpg 266 KB JPEG Image
g1841912_16.jpg 78 KB JPEG Image
gendslee_15.jpg 167 KB JPEG Image

(2) While users are watching the picture slideshow, the MP3 files can be played as background music.

TIPS

* If the SHUFFLE button is pressed after you have begun playing MP3 files with the “Play” button, only MP3 files will play in shuffle play mode.
* Slideshow delay time can be adjusted in the setup menu (press the “setup” button on your remote control)
* Supports ID3 TAG(ID3V1) while playing MP3s. If you press the INFO button, you can see the Artist/Album information of the MP3.
* If you have a .lrc file, lyrics will be automatically shown.
* The recommended picture size for the slideshow function is 720*480, but if you have a HD display, the recommended picture size is 1024x768, 1920x1080 or smaller.

7 Firmware Upgrade

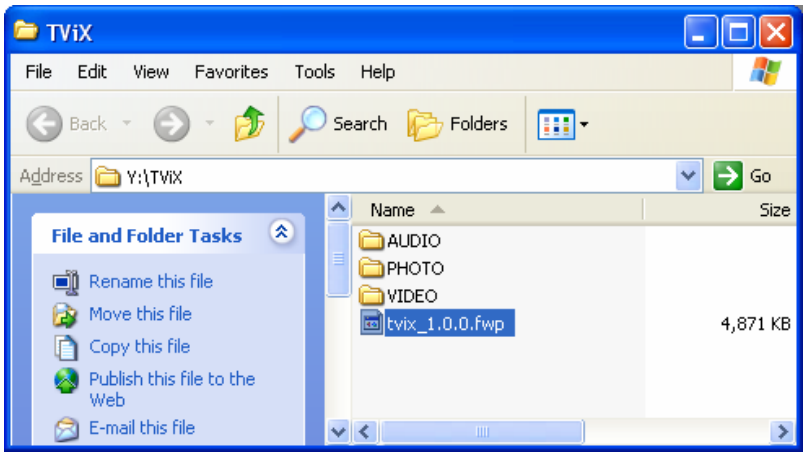
Firmware Version Check.

1. Connect the TViX HD to your TV and then turn on the TViX HD
2. Press the SETUP button on the top panel and the setup screen will be displayed.
3. Check the latest firmware version of TViX HD at www.tvix.co.kr

*** You'll be posted for any firmware updates or news if you fill out the customer registration form at http://www.tvix.co.kr

Downloading the Firmware.

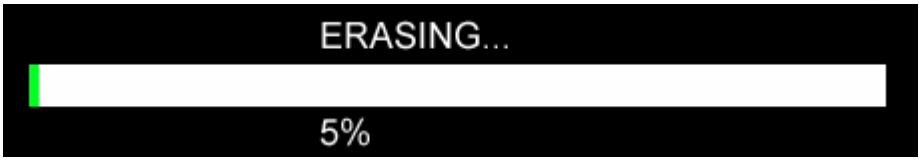
1. Download the latest firmware from http://www.tvix.co.kr to your PC.
2. Connect the TViX HD to your PC with a USB and then turn it on.
3. Your system will recognize the TViX HD as an external hard drive.
4. Copy the latest firmware files into the root of the TVIX HD hard drive.
6. Turn off the TViX HD and bring it to your TV for firmware upgrading.



How to Upgrade the Firmware

1. Connect the TViX HD to your TV
2. Select the copied firmware file (ex: TViX1.0.1.fwp) and press OK on the remote to start upgrading.
4. The following screen will be displayed. Follow the instructions on the screen.

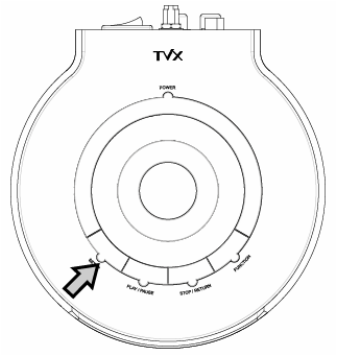
5. Erasing the old firmware is in process.

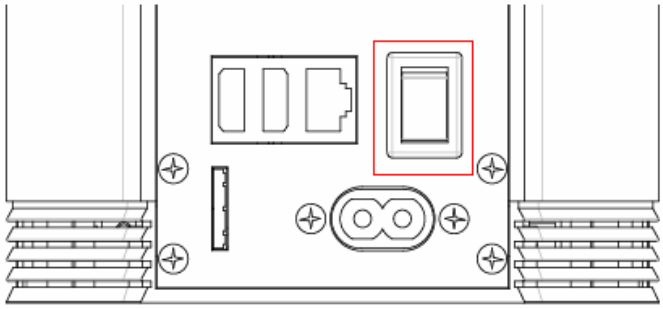


6. New firmware upgrade is in process (takes about 1 minute). When the upgrade is successfully finished, the TViX HD will reboot automatically.

< CAUTIONS: Safe Mode Upgrading >

Even if the TViX accidentally turns off during the firmware upgrade, the safe mode will enable the TViX to be re-upgraded.
Please follow the steps below:
1. Connect the TViX to your PC with a USB and then turn it on.
2. Make a tvixfw folder in your primary partition.
3. Copy the latest firmware file into the tvixfw folder of the TVIX hard drive.
4. Press the SETUP button on the top panel and turn on the TViX HD.

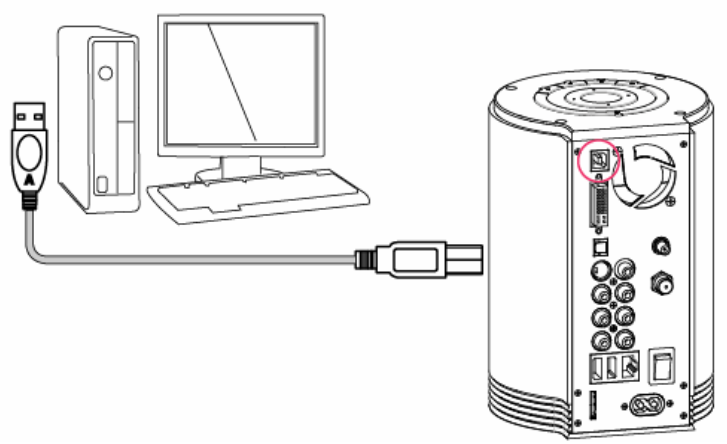




5. The VFD will show the copied firmware version, like HDD1/FW 1:01:00.
6. Press OK on the remote control to start upgrading.
7. The VFD will show PRE when erasing the old firmware is in process.
8. The VFD will show UPG when the new firmware upgrade is in process.
9. The TViX will automatically reboot after the upgrade has been successfully finished.

8 Using USB Connection with the PC

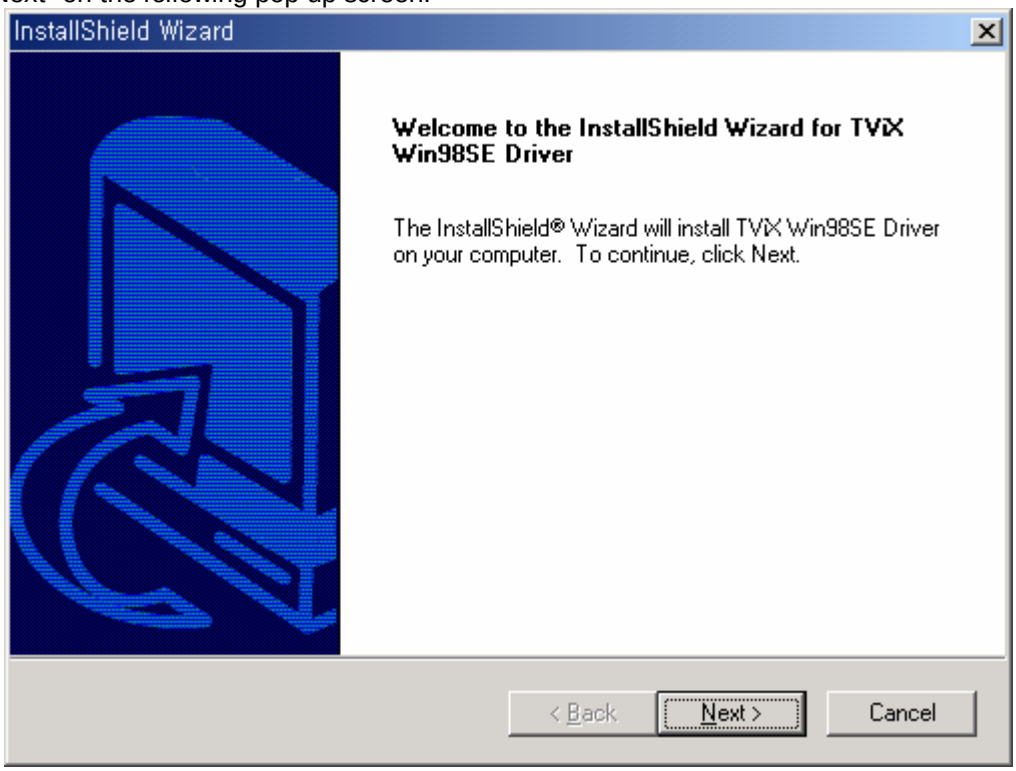
TViX HD uses a 3.5” HDD as its contents storage device and works just like an external USB 2.0 hard drive when you connect it to your PC.
You need to ensure that your HDD is set to master mode, and connected to the IDE cable and power cable before using it on your PC.
The USB cable has a different shape on both ends. We use USB 2.0 "A" Plug (male) type to "B" Plug(male) type.
After connecting to your PC, turn the power switch on.



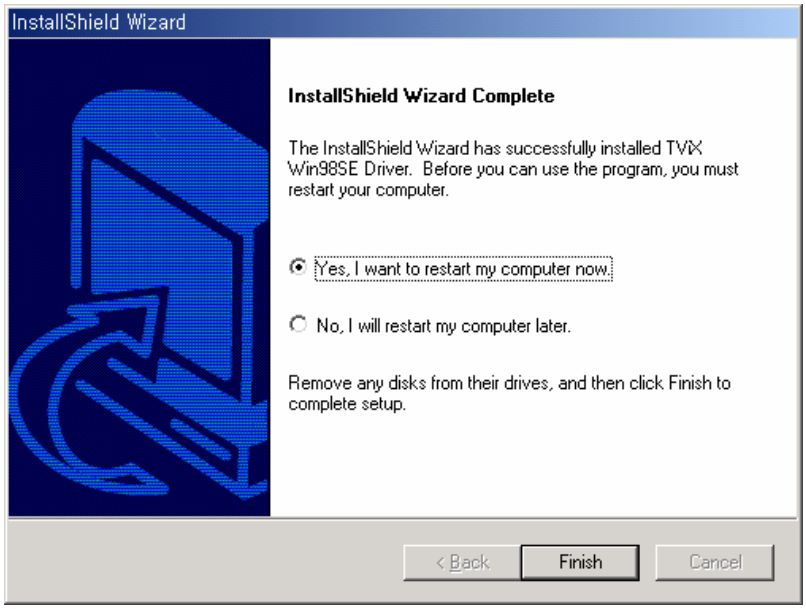
If you are a Windows98SE user, you should download a USB storage driver from our web site www.tvix.co.kr before you connect your TViX HD with your system. You do not need to install the driver under Windows ME/2000/XP.

8.1 Windows 98SE Driver Installation

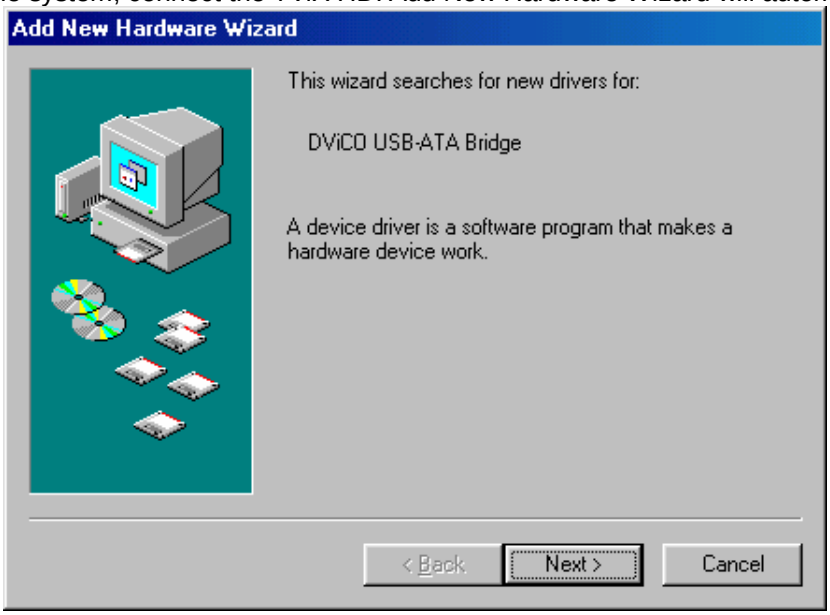
1)
Press “Next” on the following pop up screen.


InstallShield Wizard
Welcome to the InstallShield Wizard for TVIX Win98SE Driver
The InstallShield® Wizard will install TVIX Win98SE Driver on your computer. To continue, click Next.
< Back
Next >
Cancel

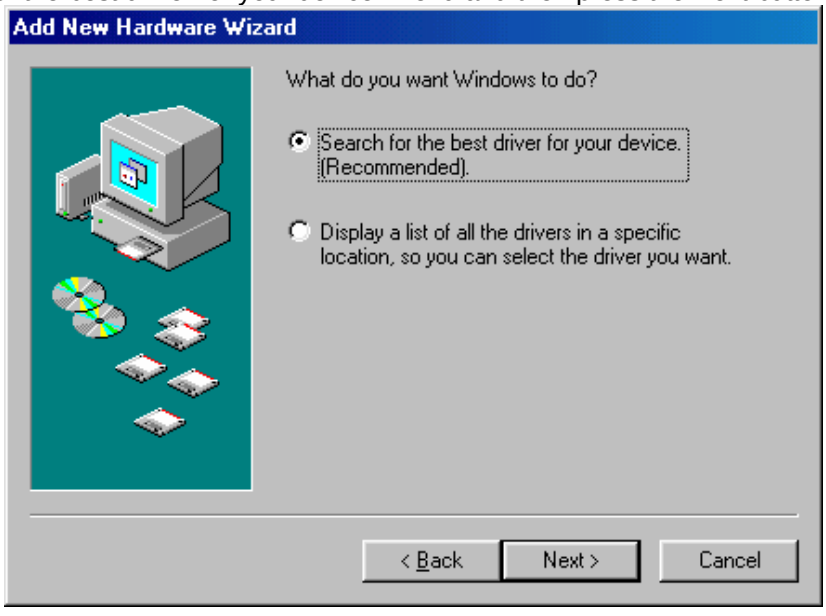
2) Press the “Finish” button to reboot.


InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed TVIX Win98SE Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

3) After rebooting the system, connect the TViX HD. Add New Hardware Wizard will automatically pop up.


Add New Hardware Wizard
This wizard searches for new drivers for:
DViCO USB-ATA Bridge
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

4) Select “Search for the best driver for your device” menu and then press the Next button.


Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

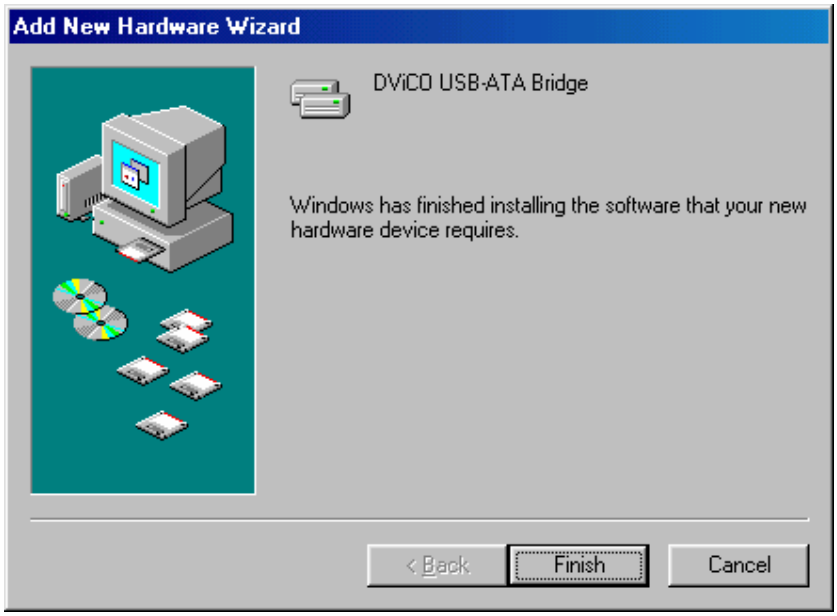
5) Do not change any of the menus. Just click “Next”.

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
E:\Setup0.86\Driver
Browse...
< Back
Next >
Cancel

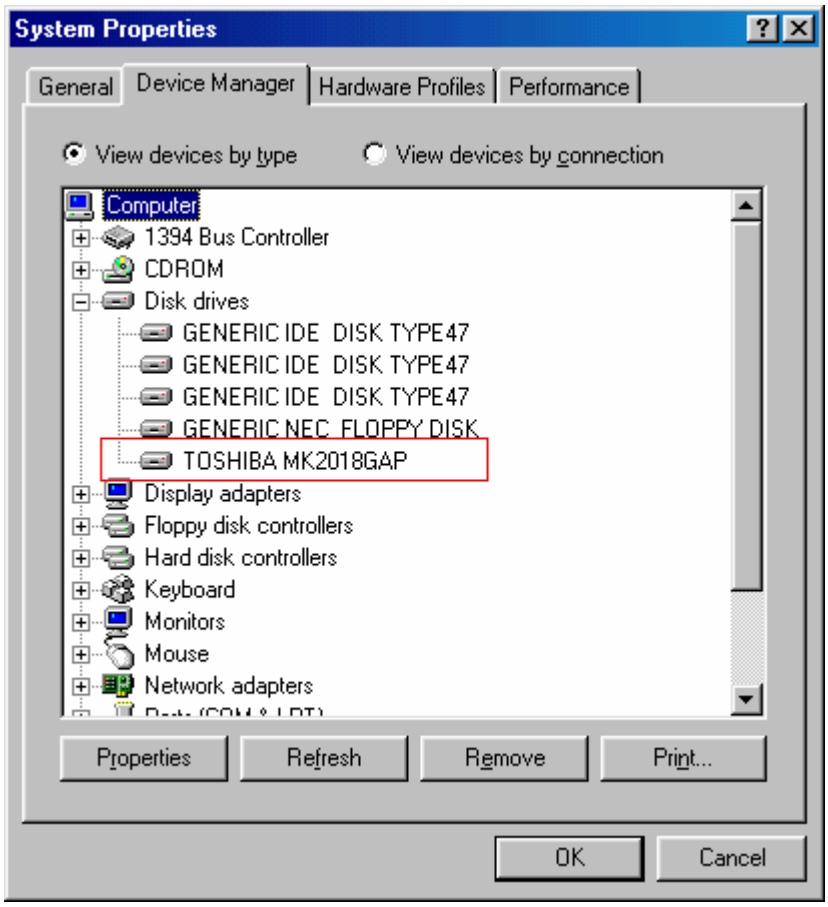
6) As shown in the pop up the system will find DVICO USB-ATA Bridge automatically. Press the “Next” button.

Add New Hardware Wizard
Windows driver file search for the device:
DViCO USB-ATA Bridge
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
C:\WINDOWS\INF\NECUSBMP.INF
< Back
Next >
Cancel

7) Press the “Finish” button and the driver installation will be finished.

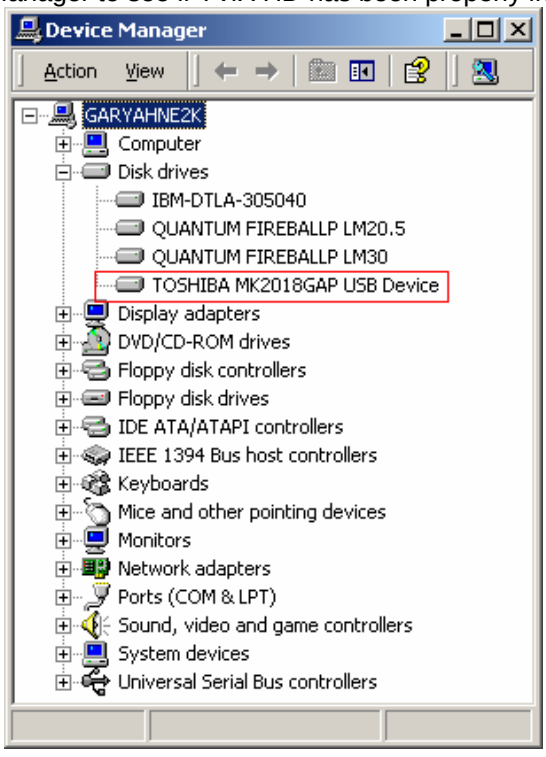


8) You will be able to see the disk drive inside the TViX HD in the Device Manager tab.



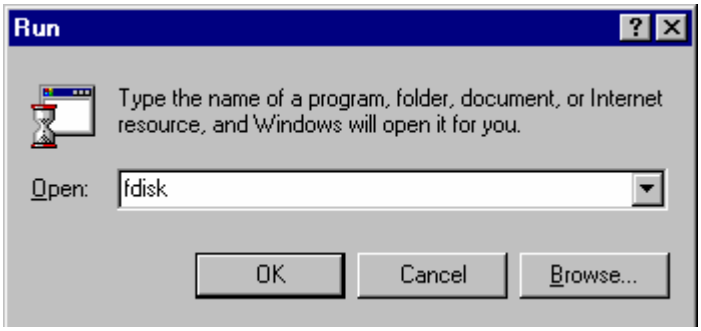
< TIPS >

Windows ME/2000/ XP will automatically provide the driver, so you do not have to install any extra software. Run Plug & Play when connecting the TViX HD. Right click the icon “My computer” then click → properties → hardware → device manager to see if TViX HD has been properly installed.

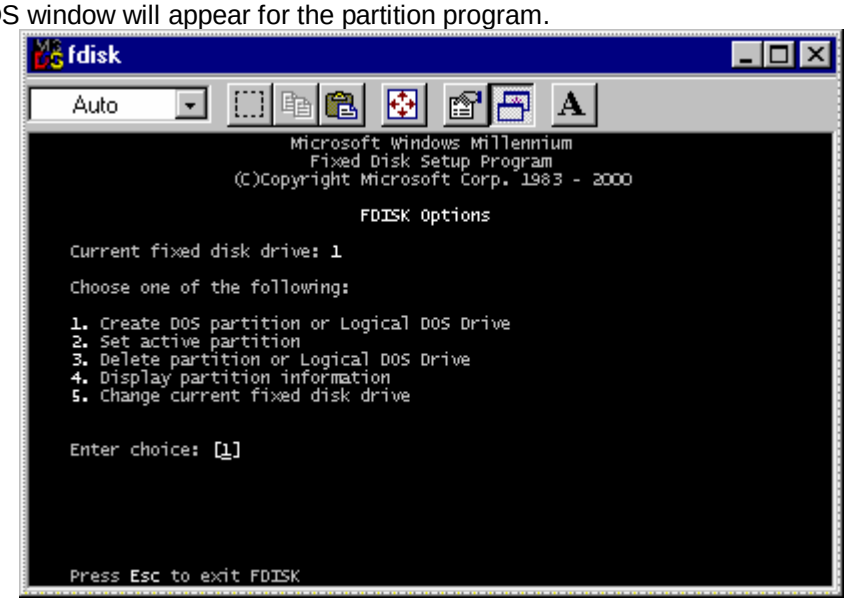


8.2 Making a Partition and Formatting the HDDs under Windows 98SE / ME

Click “Start” and select “Run” and the “Run” window will appear as shown below. Type “fdisk” in the text box of the “Run” window and then click the “OK” button.

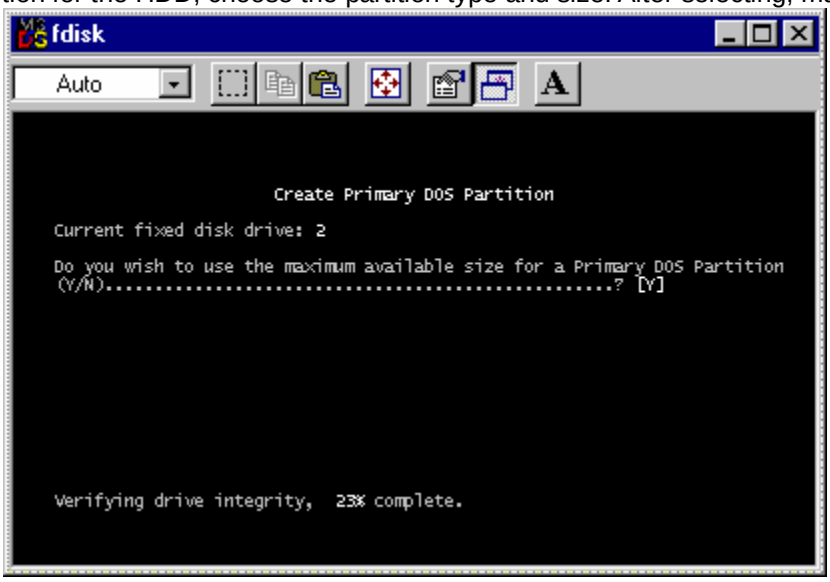


1) The following DOS window will appear for the partition program.

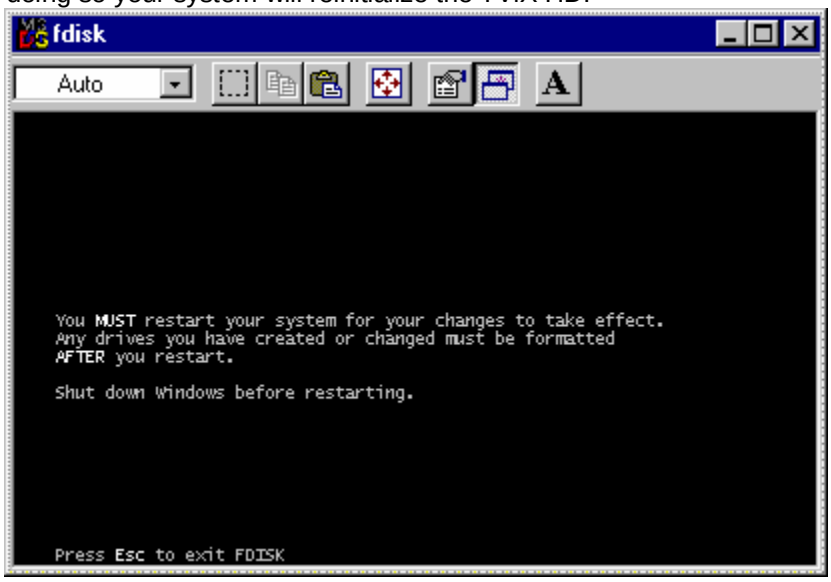

fdisk
Auto
Microsoft Windows Millennium
Fixed Disk Setup Program
(C)Copyright Microsoft Corp. 1983 - 2000
FDISK Options
Current fixed disk drive: 1
Choose one of the following:
1. Create DOS partition or Logical DOS Drive
2. Set active partition
3. Delete partition or Logical DOS Drive
4. Display partition information
5. Change current fixed disk drive
Enter choice: [1]
Press Esc to exit FDISK

2) To make a new partition, choose number 5 to select the HDD in TViX HD.

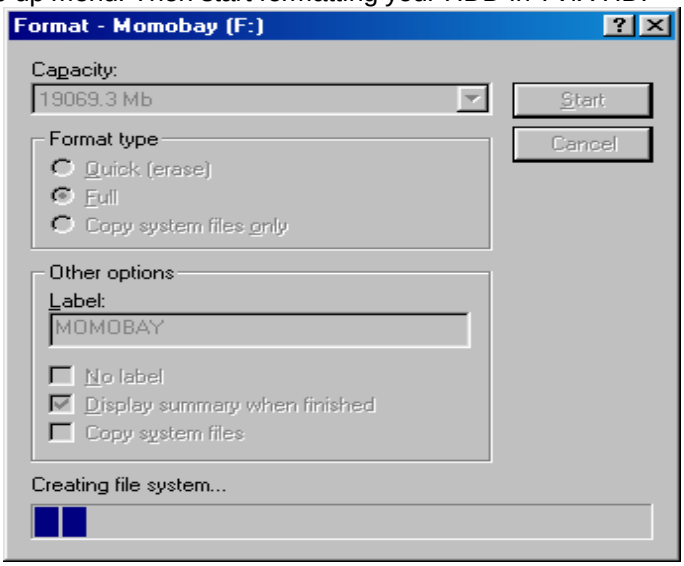
3) To make the partition for the HDD, choose the partition type and size. After selecting, make the partition.


fdisk
Auto
Create Primary DOS Partition
Current fixed disk drive: 2
Do you wish to use the maximum available size for a Primary DOS Partition (Y/N).....? [Y]
Verifying drive integrity, 23% complete.

4) After making partitions, do not reboot the system. Instead turn off the power of the TViX and then turn it back on. By doing so your system will reinitialize the TViX HD.

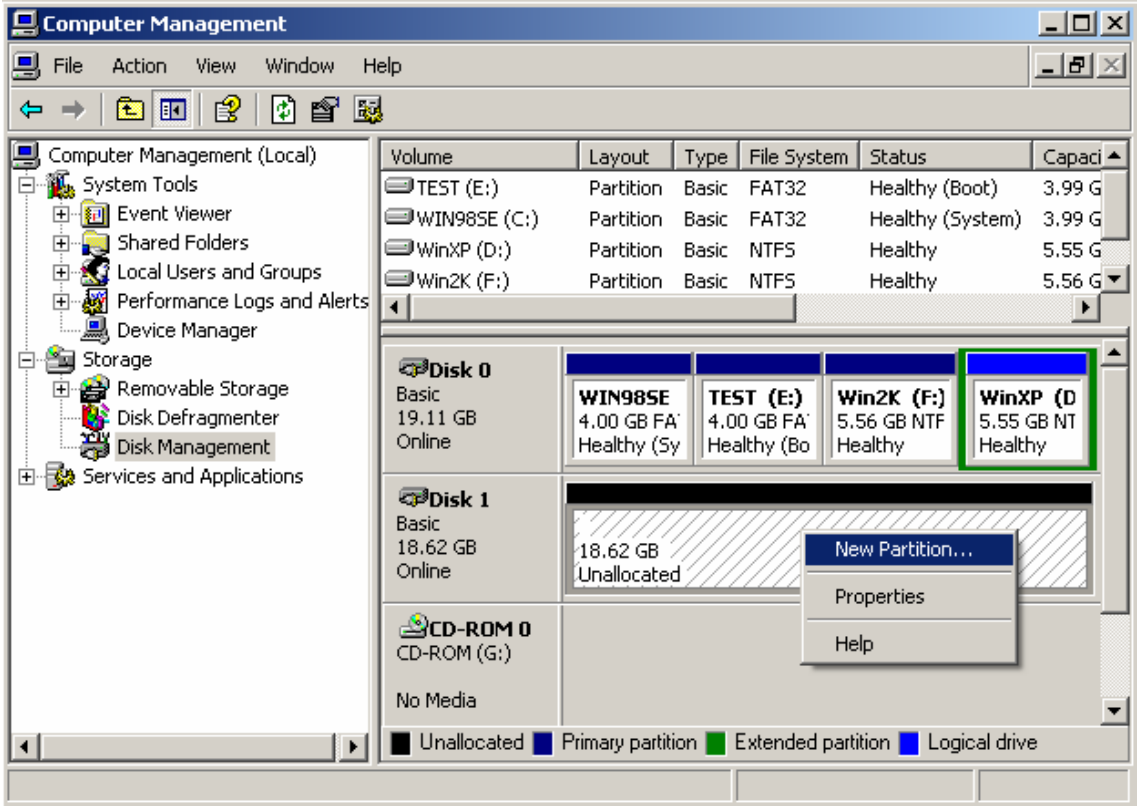

fdisk
Auto
You MUST restart your system for your changes to take effect.
Any drives you have created or changed must be formatted
AFTER you restart.
Shut down Windows before restarting.
Press Esc to exit FDISK

5) Run Window explorer and you will find the new disk created. Right click the new disk and choose "Format" from the pop up menu. Then start formatting your HDD in TViX HD.

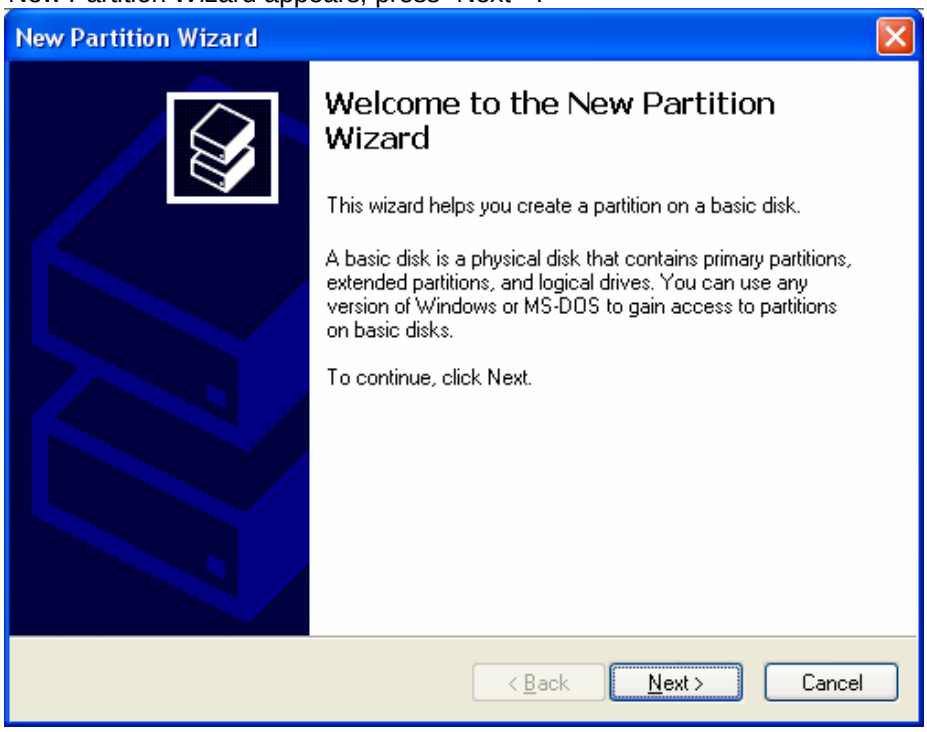


8.3 Making a Partition and Formatting the HDDs under Windows 2000 / XP

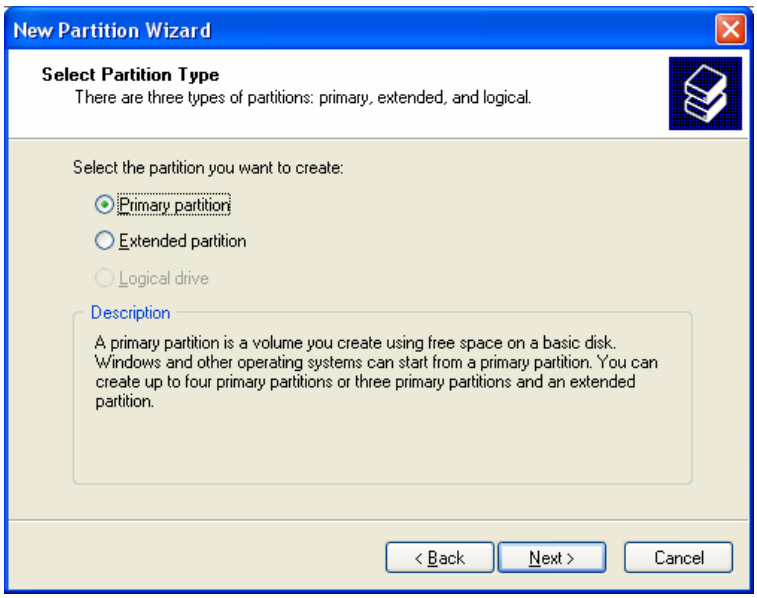
1) Under Windows 2000, you can make a partition and format the HDD using the Disk Manager utility.
2) Right click “My Computer” → Choose “manage” from the pop up menu and the “Computer Management” window will appear → choose “Disk Management” folder.
3) The disk list will appear on the right side of the “Computer Management” windows. Right click the TViX HDD from the list, and from the pop up menu choose “make partition” to create partitions on the chosen disk.



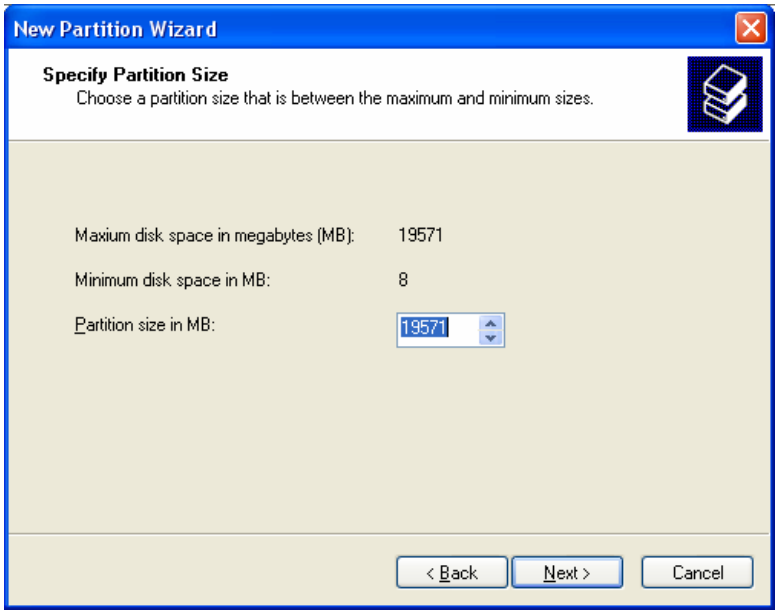
4) When the New Partition Wizard appears, press “Next>”.


New Partition Wizard
Welcome to the New Partition Wizard
This wizard helps you create a partition on a basic disk.
A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. You can use any version of Windows or MS-DOS to gain access to partitions on basic disks.
To continue, click Next.
< Back
Next >
Cancel

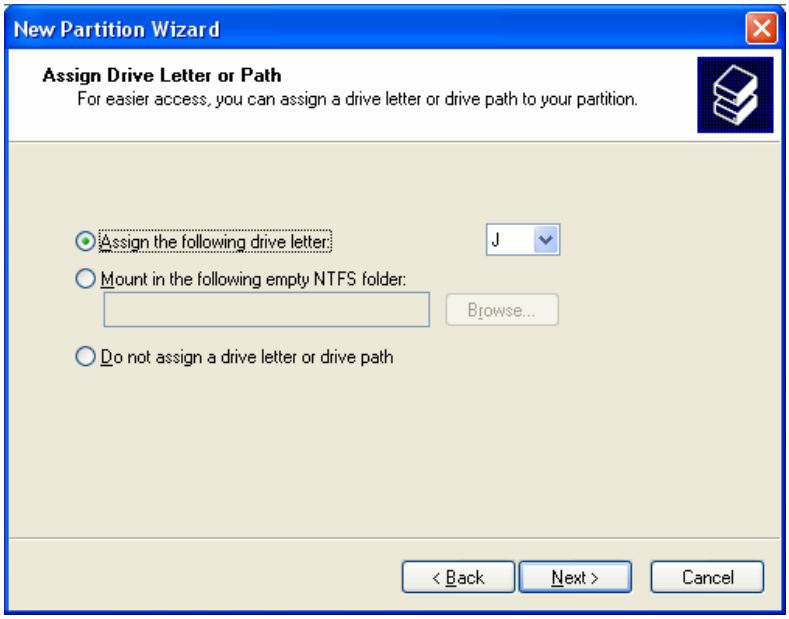
5) Choose the partition type and format the HDD. If you want several partitions, select Extended Partition.


New Partition Wizard
Select Partition Type
There are three types of partitions: primary, extended, and logical.
Select the partition you want to create:
Primary partition
Extended partition
Logical drive
Description
A primary partition is a volume you create using free space on a basic disk. Windows and other operating systems can start from a primary partition. You can create up to four primary partitions or three primary partitions and an extended partition.
< Back
Next >
Cancel

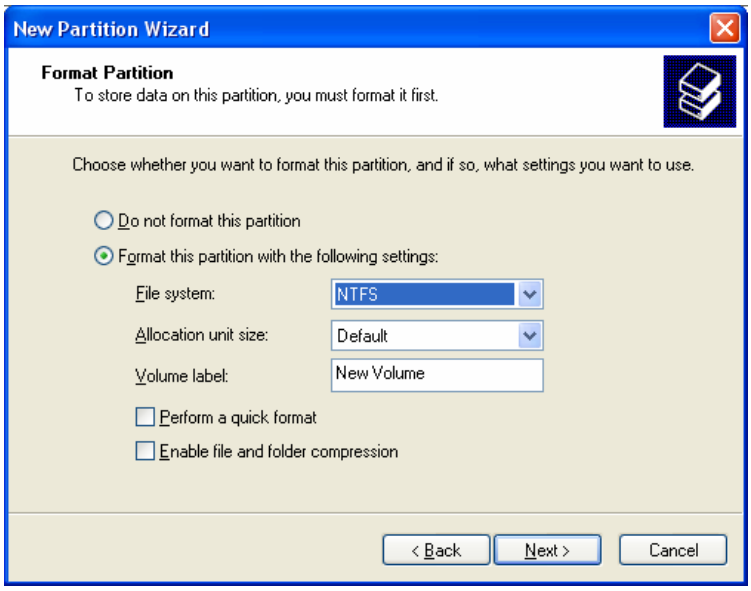
5) Select the partition size. If you want one partition, press “Next>”. For FAT32, size is limited to 32000MB or under.



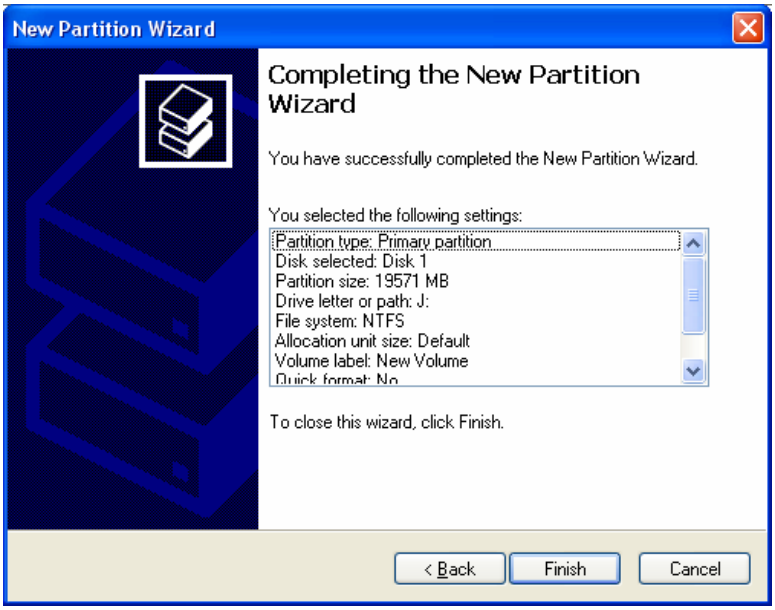
5) Select the Drive Letter. Then press the “Next>” button.


New Partition Wizard
Assign Drive Letter or Path
For easier access, you can assign a drive letter or drive path to your partition.
Assign the following drive letter:
J
Mount in the following empty NTFS folder:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel

5) Select the partition Format. If you want FAT32, it is limited to 32GBs.

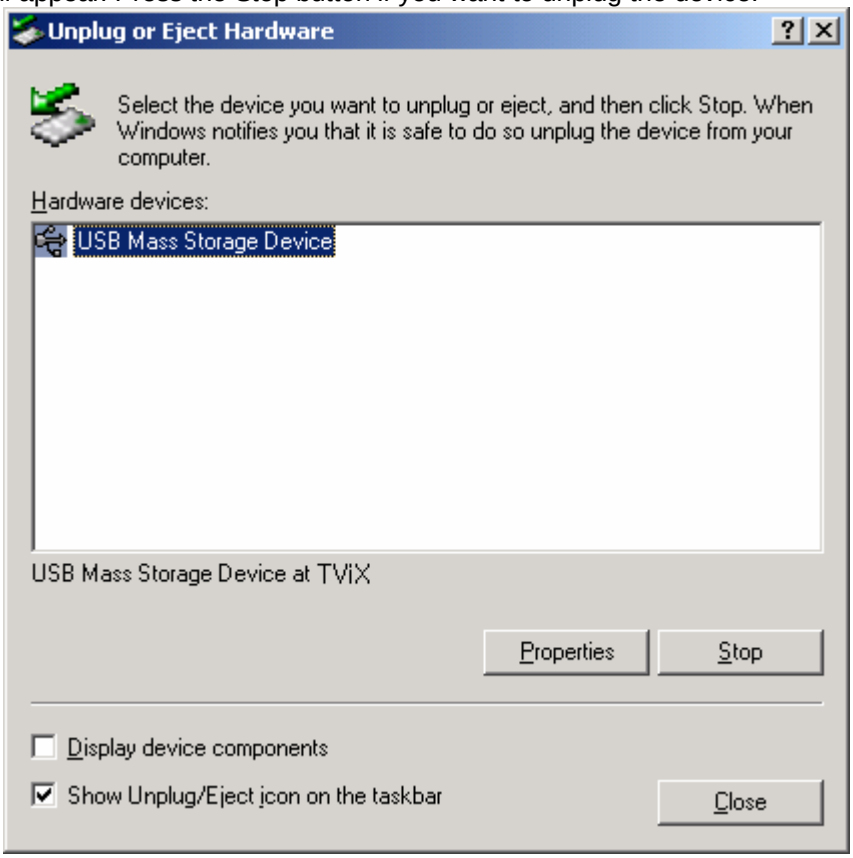

New Partition Wizard
Format Partition
To store data on this partition, you must format it first.
Choose whether you want to format this partition, and if so, what settings you want to use.
Do not format this partition
Format this partition with the following settings:
File system:
NTFS
Allocation unit size:
Default
Volume label:
New Volume
Perform a quick format
Enable file and folder compression
< Back
Next >
Cancel

5) When completed, detailed information will appear as shown below. Click the “OK” button to finish.



8.4 Unplug or Eject Hardware

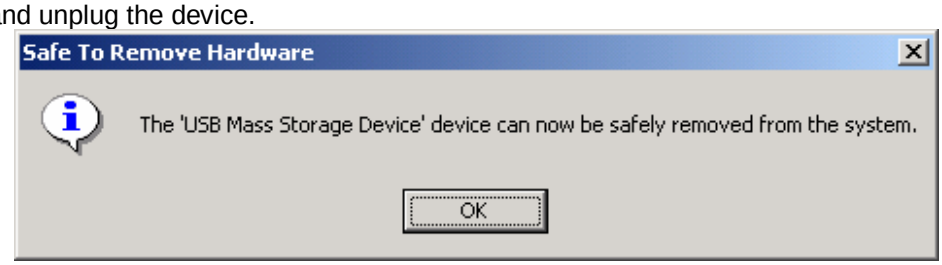
1) On the windows tray, double click the hot swap icon. The “Unplug or Eject Hardware” window will appear. Press the Stop button if you want to unplug the device.


Unplug or Eject Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.
Hardware devices:
USB Mass Storage Device
USB Mass Storage Device at TViX
Properties
Stop
Display device components
Show Unplug/Eject icon on the taskbar
Close

2) Press OK on “Stop a Hardware device” window.

Stop a Hardware device
Confirm devices to be stopped, Choose OK to continue.
Windows will attempt to stop the following devices. After the devices are stopped they may be removed safely.
USB Mass Storage Device
Maxtor 52049H4 USB Device
OK
Cancel

3) Press OK and unplug the device.



9 Appendix - Technical Terms

DivX

DivX is the name of a revolutionary new video codec which is based on the new MPEG-4 compression standard for video. When you install a video codec on your system it basically works as an add-on to your system with instructions on how to compress/decompress video in that video format. Once you've installed the DivX codec on your system you will be able to play DivX movies using Windows Media Player or any other DivX-enabled player.

Despite the fact that DivX movies offer better compression and higher quality video than regular MPEG movies it takes more time to encode due to the incredible compression technology. The DivX codec makes it possible to compress/encode a full-length movie at near DVD-quality, which is small enough to fit on a single CD (700MB). The DivX video is usually combined with MP3 audio to produce both high quality video and audio.

XviD

XviD is the name of a new open-source video codec, which like the DivX is based on the new MPEG-4 compression standard for video. It's currently being developed by people from all over the world. When you install a video codec on your system, it basically works as an ‘add-on’ to your system with instructions on how to compress/decompress video in that video format. Once you've installed the XviD codec on your system you will be able to play XviD movies using Windows Media Player or any other XviD-enabled player.

MPEG

MPEG stands for Motion Picture Experts Group. This is the same group that made the MPEG-1 (used in VideoCDs), MPEG-2 (used in DVD and SuperVCDs and other high bandwidth systems) and MPEG-4 (ASF, DivX, WMV, low-mid bandwidth systems) standards. They are also responsible for MP3 (MPEG Audio Layer 3) and AAC audio compression standards.

VOB

VOB stands for Video Objects. DVD movies are stored in VOB files. Each VOB file has a number of video/audio/subpicture streams.

SUBPICTURE

A subpicture stream found in VOB files normally refers to the subtitles. Subtitles on DVDs are not stored as "text," but rather as a video stream. A subpicture stream is one that overlays on top of the main picture stream (ie. the movie), and on a DVD the subpicture stream can be turned on and off.

AVI

AVI stands for Audio Video Interleave. AVI is a file format, like MP3 or JPG. But unlike these formats, AVI is a container format, meaning it can contain video/audio compressed files using many different combinations of codecs. Therefore, while MP3 and JPG can only contain a certain kind of compression (MPEG Audio Layer 3 and JPEG), AVI can contain many different kinds of compression (eg. DivX video + WMA audio or Indeo video + PCM audio) as long as a codec is available for encoding/decoding. All AVI files look the same on the "outside", but on the "inside", they may be completely different. Almost all tools on this site are not just DivX tools, but also AVI tools, so will work with many other codecs.

AC3

Initially known as Audio Coding 3, AC3 is a synonym for Dolby Digital these days. Dolby Digital is an advanced audio compression technology allowing to encode up to 6 separate channels at bit-rates up to 448kbit/s. For more information please check out the Dolby website.

DTS

By supplying film studios with outstanding techniques for delivering soundtracks to an attentive audience, DTS digital sound is now featured on virtually 100% of major Hollywood releases. Although the technology

used for motion pictures differs from that featured in consumer and professional audio music and home theater systems, their DTS heritage means end users can enjoy sound that closely matches the original.

WMA

WMA stands for Windows Media Audio. It is a proprietary format developed by Microsoft for audio streaming and compression. WMA files, theoretically, has double the compression rate of MP3s, although this is debatable.

Ogg Vorbis

Ogg Vorbis is a new audio compression format. It is roughly comparable to other formats used to store and play digital music, such as MP3, VQF, AAC, and other digital audio formats. It is different from these other formats because it is completely free, open, and unpatented.

Ogg Vorbis has been designed to completely replace all proprietary, patented audio formats. That means that you can encode all your music or audio content in Vorbis and never look back.

480p

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480 progressive; form of standard-definition digital television (SDTV) comparable to VGA computer displays but not considered high-definition television (HDTV), though 480p is discernibly cleaner and slightly sharper than analog television. The native resolution of DVD is 480p, but that resolution can be seen only if a DVD player outputs a progressive-scan signal and the DTV has progressive-scan or component-video inputs; it is also known as EDTV.

480i

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480 interlaced; form of standard-definition digital television (SDTV) that approximates the quality of analog television but not considered high-definition television (HDTV). Even though the native resolution of DVDs is 480p, they are viewed at 480i on an NTSC analog television.

720p

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720 progressive. One of two currently used formats designated as high-definition television in the ATSC DTV standard, this technology comprises 720 vertical pixels and 1,280 horizontal pixels. The p stands for progressive, as opposed to interlaced, scanning, which is used in the other accepted HDTV standard, known as 1080i. Contrary to myth, 720p is not inferior to 1080i; 720p has fewer lines but also has the advantages of progressive scanning and a constant vertical resolution of 720 lines, making it better able to handle motion.

1080i

1080 interlaced; one of two formats designated as high-definition television in the ATSC DTV standard, with 1,080 vertical pixels by 1,920 horizontal pixels. The i stands for interlaced, as opposed to progressive scanning, used in the second HDTV standard, 720p. Contrary to myth, 1080i is not superior to 720p; 1080i has more scanning lines but also suffers the disadvantages of interlaced scanning.

NTSC

The NTSC (National Television Standards Committee) was responsible for developing, in 1953, a set of standard protocol for television (TV) broadcast transmission and reception in the United States. Two other standards - Phase Alternation Line (PAL) and Sequential Couleur avec Memoire (SECAM) - are used in other parts of the world. The NTSC standards have not changed significantly since their inception, except for the addition of new parameters for color signals. NTSC signals are not directly compatible with computer systems.

An NTSC TV image has 525 horizontal lines per frame (complete screen image). These lines are scanned from left to right and from top to bottom. Every other line is skipped. Thus it takes two screen scans to complete a frame: one scan for the odd-numbered horizontal lines, and another scan for the even-numbered lines. Each half-frame screen scan takes approximately 1/60 of a second; a complete frame is scanned every 1/30 second. This alternate-line scanning system is known as interlacing.

PAL

Phase Alternation Line (PAL) is the analog television display standard that is used in Europe and certain other parts of the world. PAL is one of the three major TV standards together with the American National Television Systems Committee(NTSC) color television system and the French Sequential Couleur avec Memoire (SECAM). NTSC is also used in Japan. SECAM is used in countries of the former Soviet Union.

Like SECAM, PAL scans the cathode ray tube (CRT) horizontally 625 times to form the video image. NTSC scans 525 lines. Color definitions between the systems vary slightly.

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